

- \* BUYER'S GUIDE TO 1000 PRODUCTS
- \* MAKING MUSIC ON THE 64
- \* CONTEST #1 WINNERS

#### **REVIEWS:**

Omni-Writer

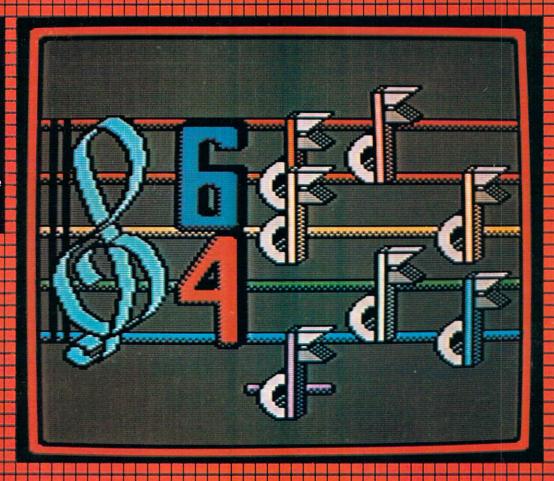
Comal

Expando-vision

Personality Analyzer & The Hypnotist

**MSD Dual Drive** 

Financial Cookbook



#### **FEATURES:**

Synful Sounds

Double-Take

3 New ERG-CARDS!

Flying the 64!



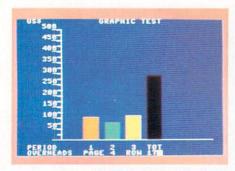
\* GALLERY: MUSIC EXHIBIT

\* CONTEST #2: WIN S64.00 & AN ERG BOARD!



#### Handle your home budget, stock portfolio, loans and mortgages with Calc Result

Calc Result Easy is a simple-to-use spreadsheet program for the Commodore 64. It includes 254 lines × 64 columns, built-in graphics, and flexible printout formats. Plug-in cartridge ... just plug it in and its ready. Perfect for cash flow analysis, personal net worth, IRA analysis, travel expenses, credit card expenditures, gas and electricity bills, etc.



#### Calc Result Easy \$49.95

Calc Result Advanced gives you 32 pages of interrelated information. The three-dimensional feature allows you to consolidate calculations in summary format. Calc Result Advanced comes on plug-in cartridge and disk. Disk drive required.



Calc Result Advanced \$99.95

#### A complete database for the home

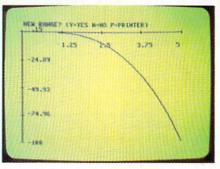
Addresses, telephone numbers, appointments, birthdays, or records-whatever you want to remember-put it on DIARY, an electronic notebook for home use. DIARY comes on a plug-in cartridge. It's easy to use and easy to learn, giving you the flexibility to design a personal calendar or address book.



Diary \$29.95

#### Turn statistical information into graphic format

GRAF 64 converts mathematical functions into graphical analysis on the Commodore 64. An ideal program for studying math. Define a function, set the limits of an axis, plot a graph and display the extreme points, intersection values, etc.

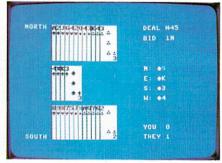


Graf 64 \$29.95

#### Develop your bridge skills

-Everyday!

Whether you're an experienced bridge player or a beginner, polish your skills or learn the game with BRIDGE 64. Play North-South, then switch to East-West in the same deal, the return to that deal again and test your skill with a different strategy.



Bridge \$39.95

#### Handic-for the broadest range of **Commodore products**

As the largest independent developer of Commodore software and accessories, Handic's broad range of business, education and recreation products are designed exclusively for the Commodore user who demands quality and reliability.



For more information and a catalogue of our products, see your nearest Commodore dealer, or call us direct.



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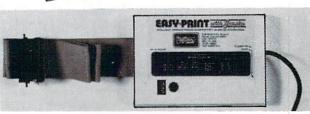
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PRODUCTS USED TO PROCUCE THIS ISSUE OF INFO-64











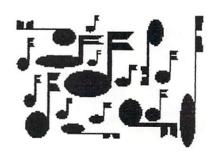


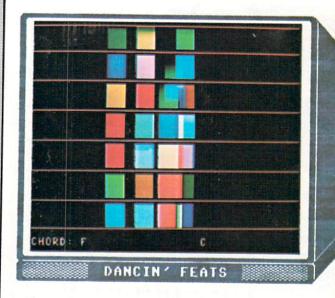
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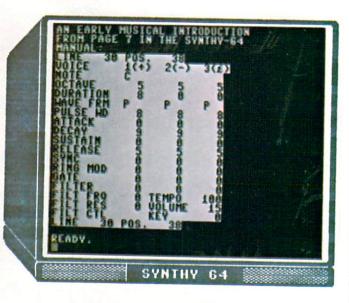
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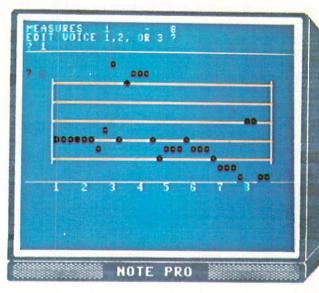
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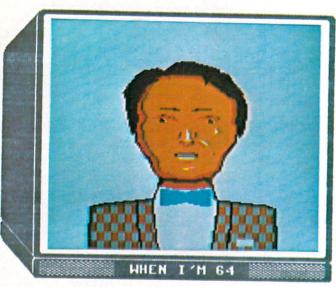
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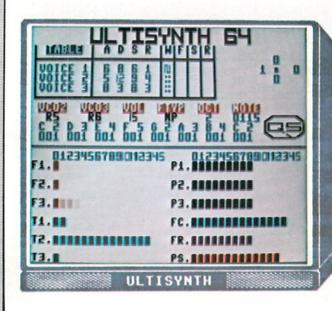


















DANCIN' FEATS

DISK/TAPE \$29.95 \*\*\*+

SOFTSYNC, INC.

(SFS)

THIS HAS BEEN APTLY DESCRIBED AS THE ELECTRONIC EQUIVALENT OF THE KAZOO! INSTANTLY UNDERSTANDABLE TO CHILDREN AS WELL AS LAY-PERSONS, DANCIN' FEATS MAKES UP IN ACCESSIBILITY WHAT IT LACKS IN DEPTH. COMPLETELY MENU-DRIVEN, YOU PLAY ALONG WITH SOME WELL-DONE BACKGROUND TRACKS OF VARIOUS STYLES FROM BLUES TO ROCK TO WALTZ. WHAT DO YOU PLAY ON? YOUR JOYSTICK! THE GRAPHICS DISPLAY IS TIED TO THE MUSIC & IS VERY DYNAMIC. FUN & SIMPLE.

NOTE PRO II WHEN

DISK/TAPE \$49.95 \*\*\*+

ELECTRONIC LAB INDUSTRIES
(ELI)

NOTE PRO II IS A PLAIN VANILLA MUSIC WRITER WITH AN AMPLE SET OF CREATIVE TOOLS, BUT NOTHING TO WAKE UP THE NEIGHBORS FOR. INPUT & EDIT EIGHT MEASURES OF 3-PART MUSIC ON THE LO-RES GRAPHICS STAFF. LEGATO, STECATO, 8-OCTAVE RANGE. HAS PRESET TONES TO START WITH, SID CONTROLS FOR THE MORE AMBITIOUS, ABILITY TO RE-SEQUENCE AND JOIN SEPARATE FILES TOGETHER. ONE HELPFUL FEATURE I LIKE IS THE ABILITY TO TRANSPOSE A SCORE TO ANOTHER KEY WITHOUT RE-ENTERING EACH NOTE.

ULTISYNTH
DISK \*\*\*
QUICKSILVA (QUI)

DON'T LET THIS COMPLICATED-LOOKING MUSIC PRODUCT FOOL YOU: IT IS MUCH MORE COMPLICATED THAN IT LOOKS! THIS PROGRAM PROVES THAT YOU CAN HAVE LOTS OF TALENT AND SKILL AND STILL MAKE A MESS OF THINGS. THE PROBLEM WITH ULTISYNTH IS THAT IT IS OVERWHELMED BY ITS OWN FEATURES. THIS RESULTS IN SOME HOPPLESS ENCUMBRANCES LIKE THE 4-PAGE CONDENSED KEYBOARD REFERENCE-CARD SET. HONESTLY, EVEN THE AUTHOR MUST NOT ENJOY TRYING TO COMPOSE ON HIS/HER SYSTEM (AS EVIDENCED BY THE SINGLE UNREMARKABLE DEMO TUNE ON THE DISK.)

SYNTHY 64

DISK/TAPE \$27.95 \*\*\*+

**ABACUS SOFTWARE** 

(ABA)

SYNTHY-64 IS FUNDAMENTALY AN EXTENSION TO BASIC ADDING OVER A DOZEN NEW COMMANDS WHICH CAN BE USED IN BASIC PROGRAM STATEMENTS TO CONSTRUCT AND PLAY MUSIC AT RUN-TIME. PROVISIONS EXIST FOR TAMPERING WITH THE ADSR (ATTACK, DECAY, SUSTAIN, RELEASE) PARAMETERS, AND OTHER CONTROLS LIKE "PORTMENTO" (GLIDE) ADD TO THE RANGE OF EFFECTS POSSIBLE. NOT REALLY WHAT I'D CALL STATE-OF-THE ART, BUT IT BEATS POKING VALUES INTO MEMORY.

WHEN I'M 64

DISK \$29.95

\*\*\*\*

**ALIEN GROUP** 

(ALI)

WHEN I'M 64 IS UNUSUAL IN MANY WAYS (BESIDES ITS NAME): IT IS UNUSUALLY INEXPENSIVE, IT LOOKS PLAIN (EXCEPT IN THE ANIMATED FACE MODE), IT IS VERY EASY TO GET GOING ON, IT SUPPORTS SUCH EXOTICA AS GLIDE, VIBRATO, REAL-TIME OVER-DUBBING, SINGLE-KEY RE-TIMING, INTERFACING WITH A SINGING SPEECH SYNTHESIZER, PROGRAMMABLE VOCALS, AND A SYNCHRONIZED FACE TO MOUTH THE WORDS. IT IS ALSO UNUSUAL IN THE BREVITY, & USEFULNESS OF ITS DOCUMENTATION. ONE OF MY FAVORITES FOR A QUICK ROMP INTO MUSICAL SELF-EXPRESSION.

MUSIC WRITER-64

DISK \$69.95

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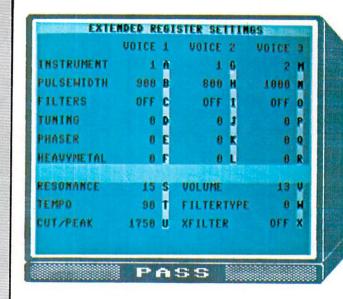
M'SOFT INC.

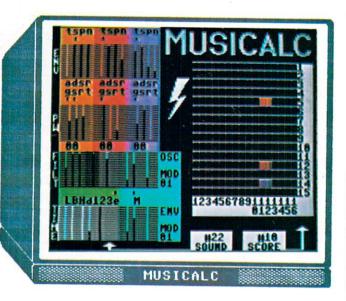
(DEE)

ESPECIALLY NICE ANIMATED STAFF & SCROLLING NOTES (THAT LOOK LIKE REAL NOTES) HIGHLIGHT THIS ENTRY FROM M'SOFT. IT'S EASY TO FIND YOUR WAY AROUND THE VARIOUS MENUS AND 3-PART REAL-TIME OVERLAYING IS QUICKLY MASTERED BY ANY OF THE MUSICALLY CURIOUS. CAN DUMP SHEET MUSIC TO CBM PRINTER (OR EMULATING PRINTER). FULL CONTROL OVER VOICE PARAMETERS. WELL DOCUMENTED. 12 K OF NOTE STORAGE. YOU CAN ADJUST THE SOUNDS OF THE VOICES WHILE THEY ARE PLAYING. HELP SCREENS.

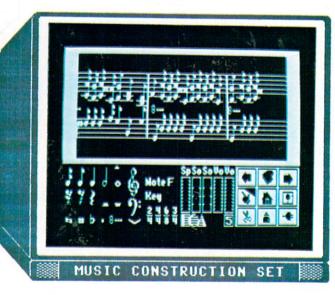


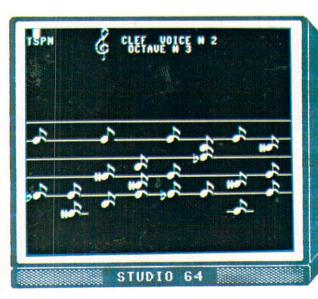


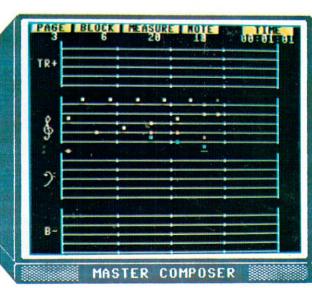




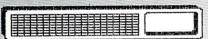












PASS

DISK \$49.95 \*\*\*\*

PARABOLA

(PSS)

EXPERT OR NOVICE: IF YOU WANT TO GET SERIOUS ABOUT MUSIC AND SOUND ON THE 64, YOU ARE GOING TO LOVE THIS SYSTEM: NO FLASHY GRAPHICS, NO FANCY PACKAGE, BUT IF YOU WANT A SYSTEM USED BY MANY COMMERCIAL SOFTWARE HOUSES TO ADD MUSIC AND SOUND TO THEIR PROGRAMS, THEN THIS IS IT. SURPRISINGLY EASY TO USE, YOU CAN MAKE COMPLEX SOUNDS WITH PASS THAT YOU JUST CAN'T MAKE WITH ANY OTHER PACKAGE. USING 5 LANGUAGES, PASS IS A TECHNICAL MORK OF ART. THE DEMO SONGS ARE TRULY STUNNING, THE 74-PAGE MANUAL IS WORTH THE PURCHASE PRICE FOR ITS CLEAR DISCUSSIONS OF MUSIC AND DIGITAL SOUND.

KAWASAKI RHYTHM ROCKER DISK \$39.95 \*\*\*\*+

SIGHT & SOUND

(\$88)

NO, IT DOESN'T COME FREE WITH A MOTORCYCLE, BUT THE KAWASAKI RHYTHM ROCKER WILL TAKE YOU ON A FAST RIDE THRU SIGHTS AND SOUNDS. RHYTHM ROCKER HAS MUCH OF THE "ANYONE CAN USE II" APPEAL OF DANCIN' FEATS ALONG WITH SOME PRETTY 'NUTS & BOLTS' USER CONTROL FEATURES. YOU CAN RUN PRE-PROGRAMMED BASS TRACKS AND LAY DOWN YOUR OWN LEAD & DRUM TRACKS ON TOP. WHEN YOU GET TIRED OF MAKING MUSIC, YOU CAN DIVE INTO THE OTHER SIDE OF THIS WILD PROGRAM; THE GRAPHICS CONTROLS. THIS IS PROBABLY THE MOST 'FUN' OF THE LOT. WORKS WITH SIGHT & SOUND'S KEYBOARD ATTACHMENT (SEE NEXT PG.).

STUDIO 64 DISK \$39.95 \*\*

ENTECH (ENT)

STUDIO 64 HAS SOME NEAT THINGS GOING FOR IT: I LIKE THE SCROLLING GRAPHICS. AND THE SNAPPY MENUS & ADJUSTMENT DISPLAYS. THE ONLY WAY TO GET LISTENABLE MUSIC FROM THIS SYSTEM, THO, IS TO TRANSCRIBE THE INFORMATION FROM SHEET MUSIC, OR BE ABLE TO COMPOSE MUSIC IN STANDARD NOTATION. ALTHOUGH REAL-TIME NOTE ENTRY (ONE VOICE AT A TIME) IS SUPPORTED, 3-PART SCORES ARE IMPOSSIBLE TO MANAGE BY EAR SINCE YOU CAN'T HEAR THE OTHER 2 TRACKS. DEMO SONGS AND FEATURES ARE WELL-EXECUTED, BUT UNLESS YOU READ MUSIC &/OR ARE ABLE TO MRITE IT, YOU WILL BE FRUSTRATED BY THIS MUSIC PRODUCT.

MUSICALC

DISK \$74.95

HHHHI

WAVEFORM

(WAV)

HERE'S AN ELABORATE, COLORFUL, WELL-DOCUMENTED MUSIC SYSTEM INCORPORATING SYNTHESIZER AND SEQUENCER FEATURES IN A VISUALLY DAZZLING ENVIRONMENT. I REALLY ENJOY THE GRAPHIC SLIDER CONTROLS AND THE WAY THEY ARE ACTIVATED AND ADJUSTED: IT'S ALMOST LIKE SITTING AT A STUDIO CONTROL BOARD! I HAVE SPENT HOURS (QUITE ENJOYABLY) FOOLING WITH THIS SYSTEM; ADJUSTING THE SOUND PARAMETERS AND GOING THRU ALL THE PRESETS AND MENUS, BUT I STILL HAVEN'T GOT THE HANG OF HOW TO WRITE A SONG WITH IT (I HAVE NO DOUBT IT CAN BE DONE!). BE PREPARED TO SPEND SOME TIME STUDYING WITH THIS ONE.

MUSIC CONSTRUCTION SET

DISK \$40.00

\*\*\*

**ELECTRONIC ARTS** 

(ELE)

ELECTRONIC ARTS KNOCKED ME OUT WITH PINBALL CONSTRUCTION SET, SO I WAS DISAPPOINTED WHEN NUSIC CONSTRUCTION SET TURNED OUT TO BE LESS THAN THE MUSICAL EQUIVALENT. THAT'S NOT TO SAY THAT THERE ISN'T SOME PRETTY IMPRESSIVE PROGRAMMING BEHIND IT, OR THAT IT ISN'T DELIGHTFUL TO WATCH, PLAY-WITH AND LISTEN TO. IT'S JUST THAT IT FALLS SO SHORT OF WHAT IT COULD HAVE BEEN (I CAN'T FORGIVE ALLOWING 2 VOICE SOUNDS.) THESE FOR ONLY VOICES AND 13 (PRE-DETERMINED) AND OTHER PROBLEMS SEEM TO STEM FROM "APPLE CONVERSIONITIS". (HOPEFULLY, THIS DISEASE CAN BE STAMPED-OUT IN YOUR LIFETIME!)

MASTER COMPOSER

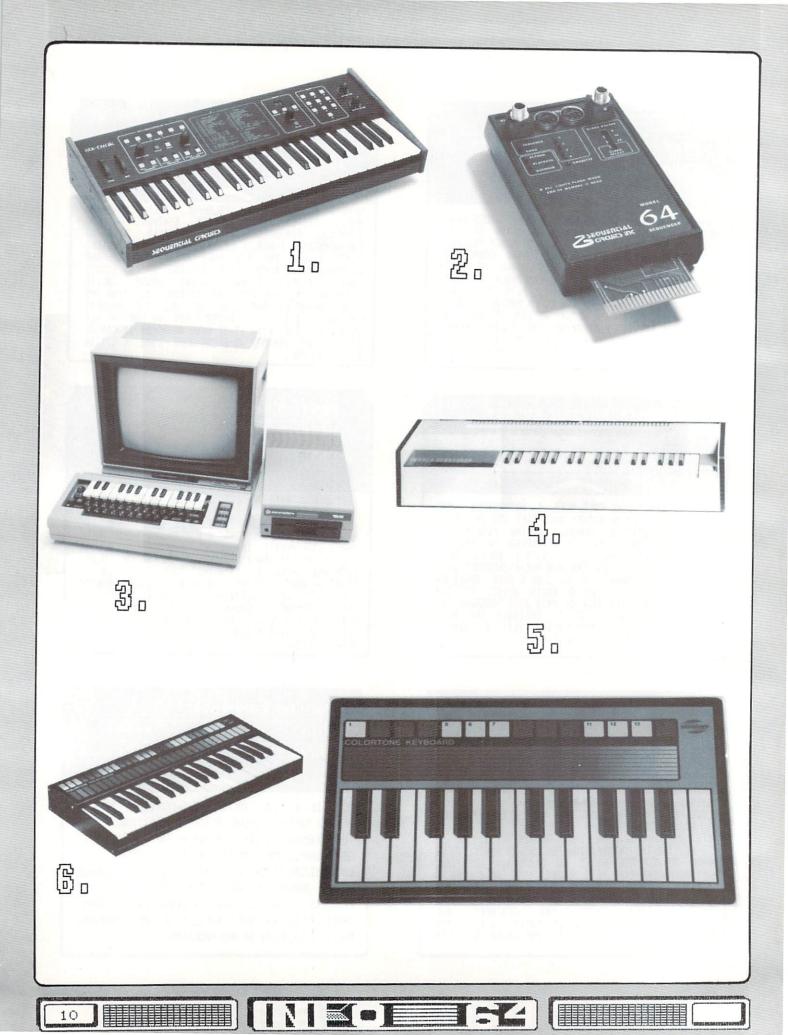
DISK \$39.95

\*\*\*\*

ACCESS SOFTWARE

(ACC)

THIS IS A REAL SOLID NUSIC-PROCESSOR WITH A VISIBLE STAFFS, COLOR VOICE DESIGNATIONS. REAL TIME GRAPHIC DISPLAY OF NOTES AS THEY PLAY, ETC. GREAT SAMPLE TUNES ON SYSTEM DISK DEMONSTRATE THE RICH MUSICAL POTENTIAL OF NASTER COMPOSER. CHANGE SOUNDS DURING PLAYBACK, DUMP SCORES TO MOST PRINTERS. LINK FILES FOR EXTENDED COMPOSITIONS. INTERRUPT-DRIVEN WITH FACILITIES FOR PATCHING MUSIC TO EXISTING OR NEW PROGRAMS.



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#### SIX-TRAK SYNTHESIZER

MIDI-COMPATIBLE, THIS \$1100 KEYBOARD IS CLEARLY AIMED AT THE PRO MARKET. WHEN USED WITH C-64 AND SEQUENCER AT RIGHT (#2), CAN BE USED TO INPUT 8 SEQUENCES OF 4000 NOTES ON UP TO SIX "TRACKS". A NEW MODEL WITHOUT THE PITCH WHEELS AND A FEW OTHER FRILLS SHOULD BE READY FOR THE HOME MARKET SOON. UN-NAMED AS YET, IT IS EXPECTED TO WEIGH IN AT (\$600.

FROM: SEQUENTIAL CIRCUITS (SEQ)

MODEL 64 SEQUENCER

THIS IS THE INTERFACE WITH SOFTWARE THAT ALLOWS THE 64 TO STORE, PROCESS, & SEQUENCE MUSIC AND SOUND TRACKS FROM MID ID DEVICES (FOR A FURTHER DISCUSSION OF MID I, SEE MIDI SIDEBAR BY PEGGY HERRINGTON WITH "SYNFUL SOUNDS" ARTICLE ELSWHERE THIS ISSUE.)

\$200.00 FROM: SEQUENTIAL CIRCUITS (SEQ)

8

#### INCREDIBLE MUSICAL KEYBOARD

FOR \$49.95 YOU GET A NIFTY LITTLE KEYBOARD ASSEMBLY THAT SITS SNUGLY ON YOUR C-64 KEYBOARD (AND LOOKS LIKE IT'S PART OF IT).
THE PIANO LAYOUT GIVES TWO OCTAVES OF KEYS THAT MAKE MUSICAL SENSE. YOU DON'T GET A FREAL' KEYBOARD, BUT THIS IS A KEYBOARD, BUT THIS IS A GOOD COMPROMISE FOR THE \$\$. COMES WITH SIMPLE SOFTWARE-IS COMPATIBLE WITH ENTIRE LINE OF SIGHT & SOUND'S SOFTWARE (CONSIDERABLE).

FROM: SIGHT & SOUND (S&S)

₫.

### MELODIAN KEYBOARD WITH CONCERTMASTER

THE SOFTWARE (3 MODULES @ \$39.95) IS THE STRONG SUIT AT MELODIAN INC. THE KEYBOARD IS RIDICULOUSLY PRICED AT \$200.02. FROM THE UNITS I TRIED AT CES CHICAGO, I AM GUESSING THAT THESE GUYS GOT A HECK OF A DEAL ON SOME DISCONTINUED TOY ORGANS MINUS THE INNARDS. THE FEEL IS DEFINITELY DIME-STORE. NOT A BAD IDEA, REALLY, BUT 69.95 WOULD BE MORE LIKE IT. THE SOFTWARE IS ANOTHER STORY- IT IS UP THERE WITH THE BEST.

FROM:

MELODIAN INC. 115 BROADWAY - SUITE 1202 N.Y. NY 10006 (212) 406-5163

5.

#### COLORTONE KEYBOARDS

THESE KEYBOARDS OFFER QUITE A RANGE OF COST/PERFORMANCE TO THE MUSIC ENTHUSIAST. THE REGULAR COLORTONE (5) IS A FLAT-MEMBRANE AFFAIR (THE ART-WORK MAKES IT LOOK 3-D, BUT IT IS FLAT) WITH SOME INTERESTING ICON-BASED INTERMEDIATE LEVEL SOFTWARE. THE PRICE IS \$79.95. THE COLORTONE PRO (6) IS A FULL-TRAVEL PROFESSIONAL-FEELING NUMBER WITH A TOUCH SENSITIVE MEMBRANE STRIP ACROSS THE TOP (ACTS LIKE A SECOND KEYBOARD FOR EFFECTS, ETC.) FOR \$399.95 YOU ALSO GET SOME SPECIAL SOFTWARE GEARED MORE TOWARD THE PERFORMING PROFESSIONAL.

FROM: WAVEFORM (WAV)

## INFO READER MAIL

DEAR MR. DUNNINGTON:

BANKING ON YOUR ASSURANCES THAT ALL LETTERS WILL BE READ BY YOUR STAFF, I FEEL I SHOULD ADVISE YOU THAT I HAD TO STEAL YOU WINTER 83/84 ISSUE FROM A LOCAL DEALER.

AFTER STUDYING SAID ISSUE I'VE COME TO THE CONCLUSION THAT - MUCH LIKE THE FORMER CASSIUS CLAY - YOU ARE THE GREATEST. UNFORTUNATELY YOU ALSO HAVE ONE OTHER THING IN COMMON WITH HIM: ARROGANCE!

YOU ARE NOT AVAILABLE ON MAGAZINE RACKS NOR CAN ONE SUBSCRIBE TO YOUR PUBLICATION, HENCE IT IS OF LITTLE VALUE TO ONE WHO IS ANXIOUS TO BECOME LITERATE ENOUGH TO ACQUIRE THE BEST COMMODORE COMPATIBLE SOFTWARE AND PERIPHERALS AVAILABLE.

I LIVE IN THE BOONIES AND IT'S A 170 MILE ROUND TRIP TO ROSEBURG AND ITS BIG BOOKSTORES - YET THEY'VE NEVER HEARD OF YOUR MAGAZINE.

OF COURSE, I ADMIT THAT I'M WAY BEHIND THE TIMES (HAVING TO READ AN OLD PUBLICATION) AND YOU HAVE EITHER FOLDED OR, SO I HOPE, HAVE BECOME SO SUCCESSFUL THAT ON MY NEXT TRIP TO ROSEBURG I JUST WIGHT FIND YOU.

HAVING TO PURLOIN YOU A SECOND TIME IS JUST TOO MUCH OF A BURDEN ON MY CONSCIENCE.

SINCERELY, GUNTER VOGEL LANGLOIS, OR 97450

DEAR MR. VOSEL:

HE HERE QUITE ALARMED TO HEAR ABOUT YOUR BRUSH HITH A LIFE OF CRIME... AFTER SOME SOUL-SEARCHING HE DECIDED TO OFFER SUBSCRIPTIONS IMMEDIATELY (SEE ENVELOPE IN CENTERFOLD) BELEIVING THAT, IF EVEN ONE PERSON COULD BE KEPT OUT OF PRISON, IT HOULD BE HORTH IT.

AS FOR CASSIUS CLAY- NELL...
I TRY TO FLOAT LIKE A BUTTERFLY AND STING LIKE A BEE,
BUT MY FRIENDS SAY I LOOK MORE LIKE MR. 'T'!

DEAR BENN:

I LOVE YOUR MAGAZINE, INFO-64. IT HAS TO BE THE BEST FOR THE COMMODORE 64. I LOOK ALL OVER TO FIND IT EVERY TIME YOUR ISSUES ARE DUE TO COME OUT. THANKS TO YOU I KNOW WHAT PRODUCTS ARE ON THE MARKET AND WHAT PRICE I AM LOOKING AT.

I'M A PROUD OWNER OF A 64 AND LOVE IT. THE ONLY REAL COMPLAINT I HAVE IS THAT YOU SHOULD PRINT MORE PROGRAMS.

IN THE WINTER '83/'84 YOU PRINTED A GAME CALLED 'CRASH!' I PRINTED IT AND RAN IT ON MY COMPUTER AND IT DIDN'T WORK. DID YOU TEST IT?

WELL BENN, OVER ALL YOU HAVE A GREAT MAGAZINE. (I WISH IT WAS DAILY!)

YOUR FAITHFUL READER,

DARIN PADUR, AGE 12 TACOMA, WA

DEAR DARIN:

THANKS FOR YOUR KIND HORDS! IT'S PEOPLE LIKE YOU THAT KEEP NE GOING AT 3 IN THE NORNING! (I USED TO HORK IN TACOND BEFORE I STARTED THIS MAGAZINE!)

AS FOR THE 'CRASH!' PROGRAM, NO, I NEVER RE-TYPED IT IN AFTER DUMPING IT OUT TO THE PRINTER, BUT SINCE IT RAM JUST BEFORE I DUMPED IT, I DON'T KNOM HOW IT CAN BE HRONG, THO I KNOM THAT THOSE LISTINGS WERE NOT EASY TO HORK FROM. SORRY FOR THE FRUSTRATION. PERSONALLY, I NEVER TYPE IN PROGRAMS FROM MAGAZINES ANYMORE BECAUSE THEY NEVER SEEN TO WORK, AND THEN I GET THE CORRECTIONS I MONTHS LATER IN ANOTHER ISSUE, AND BY THEN I'VE LOST THE URGE!

-BENN



-BENN

### info reader mail

#### INFO-64:

I ORIGINALLY PASSED YOUR PUBLICATION BY ON THE MAGAZINE STAND, UNTIL SOMEONE TOLD ME HOW EXCELLENT IT IS. IT IS REALLY GREAT.

ALTHOUGH I WAS ORIGINALLY TURNED OFF BY YOUR USE OFF PRINTER TYPE RATHER THAN SET TYPE -- NOW THAT I UNDERSTAND WHY YOU DO IT THAT WAY ( TO DEMONSTRATE THE CAPABILITIES OF A PRINTER) I LIKE IT AND HOPE YOU WILL KEEP IT UP.

YOUR REVIEWS ARE OUTSTANDING -- THEY SAVED ME FROM MAKING A PURCHASE ERROR A FEW DAYS AFTER I BOUGHT THE SPRING ISSUE.

CHARLES POLLOCK RESTON, VA

#### DEAR CHARLES:

I'M GLAD YOU GAVE US A TRY AND APPROVE OF OUR PRODUCTION PHILOSOPHY. HE ALSO USE THE BOT MATRIX FOR THO OTHER REASONS: IT FITS THE THEME OF OUR SUBJECT MATTER, AND IT'S IMMEDIACY LETS US MAKE LAST MINUTE CHANGES AND UPDATES THAT HOULD OTHERHISE REQUIRE TOO MUCH LEAD TIME. I HAD MY RESERVATIONS TOO, MHEM HE FIRST BEGAN, BUT NOM I FEEL REAL GOOD ABOUT THE FORMAT. THANKS FOR YOUR COMMENTS.

-BENN

#### INFO-64:

CHECK ATTACHED FOR BACK ISSUES. GEEZ! THIS IS AN ABSOLUTELY FANTASTIC MAGAZINE!!!! WHY HAVEN'T I SEEN IT BEFORE??

KEEP UP THE GOOD WORK! I LOVE THE DESIGN (AN ENTIRE MAGAZINE PRINTED OFF A DOT-MATRIX PRINTER - WHAT A CONCEPT!), AND DUE TO MY FAMILIARITY WITH "DOODLE" IT IS QUITE AN ACHIEVEMENT TO SEE WHAT THAT PROGRAM CAN ACTUALLY ACCOMPLISH! AMAZING!

I HIGHLY DISAGREE WITH YOUR ASSESSMENT OF SIERRA ON-LINE'S WP PROGRAM "HOMEWORD". HOWEVER, EVEN THOUGH YOU CONSIDER IT SLOW, IT IS MY WP OF CHOICE, AND OF MOST OF MY FRIENDS ALSO. EVEN THOUGH YOU MAY THINK THE ICONS SLOW THINGS DOWN, EACH ICON IS REPLACEABLE (AS YOU KNOW) WITH A CONTROL KEY, WHEREAS THE OTHER "INDUSTRIAL STRENGTH" WP'S I.E. PAPERCLIP, WORDPRO/3, ETC. ARE STRICTLY CONTROL-CODE OPERATED, WHICH REQUIRES A LOT OF MEMORIZATION OR HAVING REF CARDS LAYING AROUND ALL THE TIME.

HOMEWORD SEEMS TO ME TO BE A VERY ELEGANT SOLUTION, AND OF COURSE YOU ARE AWARE THAT THIS PROG WAS ORIGINALLY DEVELOPED FOR THE IBM PC-JR., THE CBM VERSION BEING A SPINOFF.

OTHER FAVORITE PROGS OF MINE:
SUB LOGIC FLIGHT SIMULATOR
DOODLE II
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ANYWAY... KEEP UP THE EXCELLENT WORK. HOPEFULLY YOU WON'T SUFFER THE FINANCIAL COLLAPSE EVIDENT IN SOME OF YOUR COMPETITION AS MENTIONED IN YOUR SPRING ISSUE!

ALSO HEARTILY RECOMMENDED IS STEWART BRAND'S "WHOLE EARTH SOFTWARE REVIEW", IF YOU HAVE NOT CHECKED IT OUT, PLEASE DO SO!!

YOURS FAITHFULLY, HR LASER TORRANCE, CA

#### DEAR HR:

THANKS FOR YOUR GENEROUSITY & CANDID RESPONSE RE: "HONEHORD" (I FIGURED QUITE A FEW PEOPLE MUST LIKE IT FOR IT TO BE DOING SO APPARENTLY HELL.) HAVE YOU TRIED PAPERCLIP? (NITH OUR HEN ERG-CARD IN THIS ISSUE, YOU HILL FIND THE CONTROL CODE PROBLEM IS LESSEMED CONSIDERABLY!)

SEND YOUR LETTERS TO: INFO-64 READER MAIL ROUTE 2 BOX 198-E IOWA CITY, IA 52240

## CEUS & OTEUS



THE STACK LIGHT RIFLE IS A LIGHT-SENSITIVE INPUT DEVICE IN THE SHAPE OF A RIFLE (OR YOU CAN BREAK IT DOWN INTO A PISTOL, IF YOU LIKE). VARIOUS GAMES ARE AVAILABLE THAT INCORPORATE THE RIFLE INTO THE PLAY. THE GAMES HAVE, UNSURPRISINGLY, NAMES LIKE "HIGH NOON", "SHOOTING GALLERY", "GROUSE SHOOT", "RATS & CATS", "ESCAPE FROM ALCATRAZ", "BIG GAME SAFARI", AND "CROW SHOOT". CONNECTS TO YOUR 64 BY A 12-FOOT CABLE.

PRICE: \$69.95 (INCLUDES 6-PROGRAM DISK)

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### NEW 16-BIT CHIP COULD SOUP-UP YOUR 64

A NEW CHIP IS NOW IN PRODUCTION THAT COULD RADICALLY EFFECT THE LIFE AND USEFULNESS OF THE C-64 AS THE 'COMPUTER OF THE MASSES'. THE NEW 16-BIT 65816 IS REPORTED TO COST UNDER \$12 (OEM). CAN ADDRESS 16MB RAM, IS MANY TIMES FASTER THAN THE 64'S 6510 8-BIT CPU, AND IS COMPLETELY HARDHARE AND SOFTHARE COMPATIBLE HITH THE 6510'

THAT MEANS, ACCORDING TO ONE SOURCE WE SPOKE WITH, THAT WITHIN THE NEXT SEVERAL MONTHS WE CAN EXPECT TO SEE SOME MAIL-IN RETRO-FIT SERVICES THAT WILL BE ABLE TO UPGRADE 64'S INTO SUPER-64'S WITH THE 65816 AND 256K RAM FOR UNDER \$200! SO, FOR UNDER \$500 YOU HAVE A COMPUTER THAT STILL RUNS YOUR COLLECTION OF 64 SOFTWARE (BUT FASTER), AND CAN ALSO ACCEPT A WHOLE NEW GENERATION OF HEAVY-DUTY, IBM-STRENGTH APPLICATIONS AS WELL!

IN THE LIGHT OF THIS DEVELOPMENT, IT WOULD SEEM EXPEDIENT FOR COMMODORE TO DITCH THE DUBIOUS PLUS-4 CONCEPT AND PUT OUT THERE OWN SUPER-64. NOW THAT IS THE KIND OF NEW COMPUTER WE COULD GET BEHIND!

## MENS B VIEWS

KEYBOARD COME LATELY...



HERE IS A LAST-MINUTE ADDITION TO THE MUSIC KEYBOARD LINE-UP (SEE PAGES 10-11): SEQUENTIAL CIRCUITS. FAMOUS FOR THEIR PROPHET PROFESSIONAL KEYBOARD SERIES. HAS INTRODUCED YET ANOTHER KEYBOARD OPTION FOR 64 MUSIC LOVERS. CALLED THE MUSICMATE. THIS 2 1/2 OCTAVE POLYPHONIC KEYBOARD COULD BE THE PRICE/PERFORMANCE BREAKTHRU WE'VE BEEN WAITING FOR. WE GIVE IT AN A+ FOR GOOD LOOKS. AND ARE HAPPY TO REPORT THAT IT INCLUDES SOFTWARE FOR CREATING CUSTOM SOUNDS. AND RECORDING/PLAYBACK OF UP TO 10 MINUTES OF INTO A JOYSTICK PORT. LEAVING EXPANSION SLOTS FREE. 4 ADDITIONAL SOFTWARE PACKAGES ARE AVAILABLE (\$39.95 EA.): SONG BUILDER FOR 3-LAYER OVERDUBBING. SONG EDITOR FOR ENHANCED GRAPHIC EDITING (HI-RES COLOR DISPLAY ON A GRAND STAFF). SONG PRINTER ALLOWS HARD-COPY PRINTOUT IN STANDARD MUSIC NOTATION. AND SOUND-CREATION ENVIRONMENT.

MUSIC MATE KEYBOARD (W/SOFTWARE) \$79.00 SEQUENTIAL CIRCUITS 3051 NORTH FIRST STREET DEPT. P SAN JOSE. CA 95134 (408) 946-0226

### "MAC-VIC": THE 64+ COME TRUE??

THE BIGGEST NEWS OF THE NEXT YEAR YOU'LL BE HEARING ABOUT THIS MOR MORE AS THINGS DEVELOPE)
PROBABLY CONTINUE THIS MORE AND THE EVENTUAL IS AND WILL PROBABLY CONTINUE TO BE THE UNVEILING OF COMMODORES NEW MACINTOSH- LIKE, UNDER- \$1000, ST MACHINE. AFFECTIONATELY CALLED MAC-VIC ON THE STREET. THE NEW MAC WAS 'ADOPTED' BY COMMODORE IN THE BIT MACHINE WAS 'ADOPTED' BY COMMODORE IN THE PROCESS OF AQUIRING AMIGA, THE MACHINE'S OF AQUIRING AMIGA, THE MACHINE'S BIOLOGICAL PARENT. JACK TRAMIEL IS SAID TO BE FURIOUS ABOUT COMMODORE'S BEATING HIM AND ATARI TO THE DEAL, AND THIS ONE MOVE ALONE COULD REDEEM COMMODORE FROM AN OTHERWISE LACK-LUSTER SEASON SINCE DEPARTURE EARLIER THIS YEAR.

THE NEW MACHINE SPORTS A 68000 CPU WITH FROM 128K TO 512K OF ON-BOARD RAM (EXPANDABLE TO MULTI-MEGABYTES EXTERNALLY) ENHANCED APPLESOFT-COMPATIBLE BASIC / BUILT-IN IBM COMPATIBLE 320K DBL.-SIDED DISK / BUILT IN MODEM / PARALLELL & SERIAL PORTS / 4-VOICE SOUND & MUSIC CHIP / 640 X 200 X 4096 COLOR GRAPHICS RESOLUTION / EIGHT. 16-COLOR SPRITES / WINDOWS FRAME BUFFER ANIMATION / SMOOTH SCROLLING IN ALL DIRECTIONS 80 COLUMNS CLEARLY READABLE STANDARD TV SEI FORSTTE, RGB OUTFUTS COMPOSITE, RGB OUTPUTS BUILT-IN WORDPROCESSING SPREADSHEET. ALL THIS AT (IF YOU CAN BELIEVE IT) AT UNDER \$1000. WHEN? COMMODORE SAYS "AFTER CHRISTMAS". IF YOU ASK ME, THE 'MAC-VIC' ITSELF SOUNDS LIKE CHRISTMAS!

### COMAL 2.8: IT'S UP TO YOU!

WE WOULD LIKE TO PASS THIS TIDBIT ON FROM COLIN F. THOMPSON IN THE NORTHWEST USERS GUIDE OUT OF PORTLAND OREGON:

APPARENTLY COMMODORE HAS DECIDED NOT TO RELEASE THE INCREDIBLE CARTRIDGE VERSION (2.0) OF COMAL. WE AT INFO-64 THINK THIS IS A CRIME! MR. THOMPSON SAYS THAT THE MAN RESPONSIBLE AT COMMODORE IS PAUL GOHEEN. AND THAT HE HAS SAID HE WILL RELEASE COMAL 2.0 IF HE RECEIVES 3,000 LETTERS IN FAVOR OF HIS DOING SO. PLEASE WRITE THIS MAN A LETTER OR POST-CARD !!!!!!!

INFO-64 READERS WANT COMAL 2.0 MR. PAUL GOHEEN DIRECTOR OF SOFTWARE DEVELOPMENT COMMODORE BUSINESS MACHINES 1200 WILSON DRIVE WESTCHESTER PA 19380

WE WILL PUBLISH AN UPDATE ON THIS STUNNING INCARNATION OF THE COMAL LANGUAGE IN ISSUE #5.



☆☆☆☆



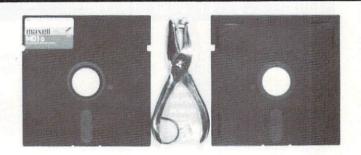


## PB



AVAILABLE FROM: **EVOLUING TECHNOLOGY COMPANY** 3725 TALBOT ST., SUITE F SAN DIEGO, CA 92106

\$19,95



AVAILABLE FROM: ANY OFFICE SUPPLY \$ 1.79 OR DIME STORE (USE ANOTHER DISK FOR A TEMPLATE)

\* NOTE ON "DISK-DOUBLING": Y DESIGNED DE WHICH CAN BE DOUBLED SURFACE DAMAGE. - THE EDITOR.

### THINGS WE'D LIKE TO SEE...

MANUALS IN SPIRAL-RING, 3-RING, OR OTHER LOOSE BINDING THAT ALLOWS LAYING OPEN FLAT FOR HANDS-FREE I SHEAR. THESE REFERENCE: COMPANIES PERFECT-BIND THEIR NAMUALS HAVE EITHER NEVER USED THEIR OWN PRODUCT, OR ARE JUST SADISTIC TROUBLE-MAKERS. SOMEONE MUST TELL THESE MANIACS THAT IT TAKES TWO HANDS TO TYPE, AND TWO HANDS TO HOLD TWO NAILS, OR TWO POTTED RUBBER TREE PLANTS) TO HOLD THEIR MANUALS OPEN.

PROGRAM LOADING INSTRUCTIONS ON THE DISKETTE LABEL: IF THESE PEOPLE ARE GOING TO TAKE THE TROUBLE TO PUT EXPENSIVE, ARTSY LABELS ON THEIR SYSTEM DISKS, MAY NOT PUT THE DARN LOADING SEQUENCE ON THE LABEL TOO? WHY SHOULD THE CONSUMER HAVE TO LOOK IN THE MANUAL ON PAGE 5 TO FIND OUT HOW TO LOAD THE PROGRAM??? WHILE I'M ON THE SUBJECT (AND JUST IN CASE ANY OF THESE GENIUS-TYPES ARE READING THIS) WHY NOT GO A
STEP FURTHER AND PUT THE INSTRUCTIONS "UPSIDE DOWN"
SO THAT YOU CAN READ THEM WHEN THE DISKETTE IS GOING
INTO THE DRIVE? BETTER YET (NO, THIS IS TOO MUCH TO
ASK) WHY NOT FOLLOW THE SIMPLE CONVENTION OF MAKING
EVERY PEICE OF SOFTWARE LOAD WITH 'LOAD "\$ ",8'?
EVEN IF IT'S A MACHINE LANGUAGE PROGRAM, THIS COULD
STILL WORK BY LOADING A ROOT PROGRAM THAT WOULD LOAD STILL WORK BY LOADING A BOOT PROGRAM THAT WOULD LOAD THE MAIN PROGRAM. BUT MO-0-0-0, EVERY 5TH VENDOR WANTS YOU TO DO IT DIFFERENT (EVIDENTLY, SOME WANT YOU TO LOAD "PRODUCT NAME", 8 SO YOU WON'T FORGET THE ELUSIVE NAME OF THEIR GREAT NEW GAME).

UNIFORMITY IN TERMINOLOGY: I HAVE SEEN ALL OF THE FOLLOWING USED FOR THE SAME THING IN VARIOUS MANUALS; 'NEW', 'FORMAT', 'HEADER', 'PREPARE', AND 'INITIALIZE' (WHICH IS JUST PLAIN WRONG). NO WONDER NEWCOMERS TO THE BRAVE NEW WORLD THROW UP THEIR

HANDS IN FRUSTRATION.

USEFUL SOUNDS: WITH THE MULTI-TALENTED SID CHIP USEFUL SOUNDS: WITH THE MULTI-TALENTED SID CHIP AT THE PROGRAMMERS' DISPOSAL, I WOULD LIKE TO SEE WELL-CONCEIVED SOUND EFFECTS USED TO AID IN APPLICATIONS SOFTWARE. FOR INSTANCE, WHY NOT USE TWO DISTINCT SOUNDS TO INDICATE THE 'ON' OR 'OFF' OF A TOGGLE (IE: TOGGLE-ON ALL-CAPS IN A WORDPROCESSOR GIVES A SHORT, ASCENDING CHIRP, WHILE TOGGLE-OFF GIVES A LOW, BASS 'BLAT'). THUS THE OPERATOR KNOWS (WITHOUT LOOKING) JUST WHAT HE/SHE HAS DONE. BETTER YET, USE EVEN A CRUDE SOFTWARE-SYNTHESIZED SPOKEN WORD ('ON' AND 'OFF' SHOULD BE FAIRLY EASY FOR THE MITARDS OUT THERE. ESPECIALLY IF COUPLED WITH HI AND WIZARDS OUT THERE, ESPECIALLY IF COUPLED WITH HI AND LO PITCHES).

MORE BOOKS THAT DEAL WITH HOW TO DO NEAT THINGS WITH

YOUR ALREADY-NEAT SOFTWARE.

I'M WAITING FOR THE SAME PERSON THAT INVENTED VELCRO TO INVENT A NIFTY INTEGRAL WRITE-PROTECT DEVICE THAT IS ALWAYS ON THE DISKETTE & ELIMINATES THE TAPE-TAB SYSTEM CURRENTLY EMPLOYED (MAYBE A SLIDING. WHERE ARE ULTRA-THIN PLASTIC CLIP OR SOMETHING)... ALL THE PRODUCT ENGINEERS THAT GRADUATED FROM COLLEGE IN THE LAST 10 YEARS? DON'T THEY KNOW THERE'S MONEY TO BE MADE ON THIS STUFF??

SPEAKING OF ENGINEERS, WHERE IS ALL THE ENGINEERING SOFTWARE? I ALWAYS THOUGHT THIS WOULD BE THE FIRST APPLICATIONS STUFF TO BE DONE, BUT I HAVE YET TO SEE A PROGRAM FOR THE 64 THAT HELPS YOU DESIGN AN 'I'-BEAM FOR OPTIMUM STRENGTH-TO-WEIGHT, OR CALCULATES THE STRESSES ON A TRUSS MEMBER, OR THE SHEAR-STRENGTH OF A RIVETED PLATE. I THINK THIS IS

LONG OVERDUE.

IF THERE IS SOMETHING WOULD LIKE TO SEE TO MAKE YOUR COMPUTING MORE PRODUCTIVE OR ENJOYABLE, SEND YOUR COMMENT TO:

INFO-PUBLICATIONS 'THINGS WE'D LIKE T ROUTE #2, BOX 198-E IOWA CITY, IA 52240 TO SEE

Ned Salarions

We all know that self improvement is a worthy often difficult goal. Whether it's breaking a bad habit or shedding a few pounds, will power, perseverance, and self sacrifice are usually the minimum requirements to get the iob done.

Being mere mortals we need help, either from a loved one (friend or relative), an institution or organization (like Weight Watchers), or a device (such as Stimutech's Expando-Vision). Expando-Vision provides help in the form

of subliminal messages displayed on your TV.

As an interface between an ordinary television set and the Commodore 64 or Vic 20 personal computers, Expando-Vision permits users to alternate between computer only, TV only, or combination modes. The latter setting is the newest wrinkle in behavior modification. Imagine what B.F. Skinner could do with a machine like this!

Consisting of the Electronic Interface Device, matching transformer, and coaxial cable with antenna adaptor, the unit works in conjunction with the computer. TV, and eight software packages (each sold separately).

Installation is quite simple, taking no more than a few minutes and requiring nothing but a screwdriver and common sense. Similar to a home computer's television hookup, the interface device can also be connected to a video cassette or videodisc system. All the hardware is included for cable or internal/external antenna hookups for either UHF or VHF

The software is designed to help with weight and stress control as well as career/success motivation and sexual confidence. Other topics include athletic confidence (golf, bowling, and an area of general reinforcement), confidence study habits and memory enhancement, smoking control, and

drinking control/responsibility.

The documentation, though skimpy, is adequate. Most of it concerns the installation procedure. Case in point, several well laid out diagrams make things even easier for those that aren't comfortable with anything more than

driving a nail into a two by four.

Since there are few control options available, learning how to use Expando-Vision is a snap. First, to ensure proper operation once connected, hitting the "D" key interrupts the TV show being broadcast and displays the complete message cycle in slow motion. Depressing "S" shows only the next subliminal prompt at a visible speed; while keying "R" restores the message bank to its starting point, permitting selection of an alternate reinforcer from the on-screen menu.

This main menu screen, which appears after the title page, offers the following options: message selection, the company address, and a preview of other programs. Choosing message select brings forth a submenu of specific "user friendly" routines.

Though the eight programs are designed to work in different areas, there is some overlap and duplication in the routines offered. For instance, positive thinking is included in Stress Control, Control Drinking, Control Smoking, and Study Habits. Self Confidence makes appearances in Athletic Confidence, Study Habits, and Control Drinking. There are other occurrences of this nature.

While this is not a fault, or even unethical, it highlights the fact that the eight "self help" program product line has been somewhat artificially inflated. No one can tell me that each routine takes anywhere near the 170K or so that can fit on a 1541 compatible floppy. At best, two or three disks could do the entire job, and that's being generous!

Of course each program is only for those seeking a particular type of aid, so (hopefully) no one will need all of them. (At that point, or well before it actually, anyone contemplating personal use of every program should see several doctors; preferably in as many disciplines as

possible!).



So in the long run, this division of routines into so many offerings appears to be motivated more by the desire

to create an air of specialization than greed.

Every title contains five routines. When invoked they display (subliminally or visually depending upon user selected preference) messages such as weight control's I see me thin, trim, or slender; I am secure, attractive, slim, acceptable, and comfortable. Every routine visually inspected during the testing had the fix-it-all "I am DK" as the final message.

Though scientifically designed and administered tests are needed to determine whether or not Expando-Vision actually works as claimed, the anticipation, or knowledge of its use can provide a reassuring and beneficial placebo effect. If you believe it can and does help, then it most likely will. Heaven knows faith and sugar pills have gone a

long way before!

Though by far less expensive than professionally administered psychoanalysis, Expando-Vision is not cheap. The Electronic Interface Device retails for \$89.95 while each software package goes for \$39.95 (Commodore 64 disk).

The decision on whether or not to purchase this device and its supporting software is strictly a personal matter. Investigate first (this review should help in that respect), seek advice (professional or trustworthy), and then weigh all the factors.

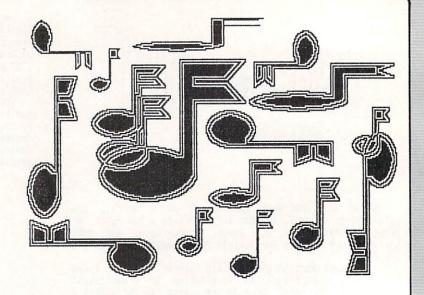
Editor's note: Stimutech declined to provide a sample product for IMFO-64 to rate unless censorship control was given to them in exchange. Consequently, NO RATING is available.

EXPANDO-VISION DISK / \$39.95 INTERFACE \$89.95

Stimutech Incorporated 3850 Research Park Drive Ann Arbor, Michigan 48104 (313) 761-9027

## SYNFUL SOUNDS

BY: PEGGY HERRINGTON



You hear about them all the time now, these newfangled things called synthesizers. Everyone can tell the difference between a guitar and a trumpet but do you know a synthesizer when you hear it? Probably not, because synthesizers are sneaky; they're so good at reproducing the sounds of acoustic instruments you can't tell the difference. If mimicking existing instruments is what synthesizers are for (besides tossing in a few futuristic effects), then what's all the fuss about?

In case you don't already know, synthesizers are probably the most versatile, economical, productive and,

yes, exciting musical instruments ever devised.

Music synthesizers are changing our entire musical landscape and, from amateur to professional, instrument manufacturer to recording studio engineer, composer to consumer, everyone is moving to the beat. You can't switch stations on your car radio, catch a concert or flop down in front of the TV at the end of a long day without hearing

the sound of a synthesizer.

Digital technology, the driving idea behind the synthesizer, and automated music, the concept of making music without a player, have been around a lot longer than you might think. Automation dates back to the ancient Chinese who carefully constructed wind-chimes to play melodies and harmonies powered by wind patterns of the day. Then, nearly a thousand years ago, a group of Dutch engineers developed a bell chiming device they called a carillon, which was driven by a revolving wooden cylinder studded with thousands of holes (say "hello" to the binary zero). Wooden pegs (meet the binary one) were fitted into these holes. Turning this cylinder activated the bell-ringing mechanism. Different melodies and chords could be played by reorganizing the pegs (analogous to programming) and the music would play while the musician snoozed.

Reorganizing the pegs probably wasn't easy; playing any instrument well isn't like whistling Dixie. Peter Nero, well-known composer, conductor and pianist, and spokesperson for the 1984 Summer Consumer Electronics Show, uses a computer professionally – but not for making music. "A synthesizer is a musical instrument unto itself," said this master keyboard artist when I asked why his lifelong affair with electronics hadn't led to playing the synthesizer professionally. "You have to spend a lot of time developing technique on a synthesizer, just like any other instrument," he said. Bob Moog personally introduced him to synthesizers in the '70s and that was when Nero decided he had his hands full with the piano, not to mention composing and conducting. He uses a TRS-80 for business management and has written many of his own programs.

Peter Nero pointed out (and I can confirm it by my own comparatively limited experience) that computer programming and musical composition are a lot alike. Both are governed by strict parameters and, even more instrumental to the process, symbolic thinking. If you have some skill at one and an interest in the other, by all means check it out. Keep in mind that the Commodore 64 is a fantastic way to approach either.

The C-64 contains a bonafide music synthesizer, the Sound Interface Device, familiarly called "SID." It has three independent voices, each with a programmable 4-step sound envelope (ADSR), triangle, sawtooth, variable pulse or white noise waveforms, high-pass, low-pass, band-pass or notch reject filters, synchronization and ring modulation. Although they usually have more voices and some offer 6-step ADSR's, features identical to these can be found on many professional music synthesizers. The least expensive unit I've seen costs just about what my Commodore system did (including computer, color monitor, disk drive and letter quality printer). The synthesizer didn't have an amplifier or speakers, nor would it drive a printer, control a robot or play games with my kids.

Straight out of the box, a Commodore 64 will produce darned good sound. With only a couple of changes you can

make music with it like a pro.

Music synthesizers produce tones in a number of ways. SID does it with voltage control oscillators (VCO's). The operation is digital up until a tone is sounded, when the VCO'S switch on and the process becomes analog. One way to spot an analog synthesizer is by waveform specification: with digitial synthsizers, you have to design your own.

Electronic music in an entirely digital system takes the form of a changing voltage which is transmitted from a computer to a speaker in bit streams. These bit streams are measured in units called samples, which you can think of as tiny numerical slices of parameters. Sampling is a memory intensive process. In general, the more often you sample, the better quality sound you'll get. With VCO synthesizers (like many professional synthesizers and SID in the C-64) you don't have to fool with sampling. But the sample width, the number of bits used to represent each sample, is determined by the size of the processor in the unit, not the VCOs. Six decibels of signal-to-noise ratio are produced for each bit in a sample, so an 8-bit processor results in a signal-to-noise ratio of 4 decibels. This ratio produces an audible hiss and some harmonic distortion and I've heard it compared to the sound of a portable AM radio. Something like a 12-bit system is needed for audio as good as a decent stereo system, and 16-bit and larger processors are used professionally.

The Commodore 64 houses an 8-bit processor. Now before you intellectually shove SID on the shelf beside that portable radio, you should seriously consider routing SID's audio through your stereo (and filtering out that little hiss) or putting it through an amplifier with reverb. I think the sound system affects the quality of sound almost as much as the size of the processor.

The other thing you need is a piano-type keyboard. Until recently, one which accessed SID's voices on the C-64 couldn't be found. This situation has been rectified now by Melodian, Inc. and Waveform Corp., who've each designed unique software to incorporate professional music-making techniques on the C-64. See reviews in this issue. (Incidently, I have it on good authority that the Commodore keyboard with additional SID chips will not be produced

afterall.)

Making music on a synthesizer with a musical keyboard and appropriate software is so much fun it's downright synful. Let me give you an example. First we'll lay down the bass or rhythm track. Through software control we'll turn on the record feature and set the click track (a metronomic beat which won't sound when we playback) at a slow tempo. On the musical keyboard we'll pick out the bass line or the lowest harmonic line from sheet music - or compose our own if we wish - all the way through to the end of the piece. It will automatically be recorded. we're finished, we can experiment with various instrument sounds for that voice. Then we'll switch to track two and record another voice on top of the bass line (with or without the click track), after which we can adjust the timbre again. Viola and violin? Bass drum and trumpet? Better yet, let's synthesize a sound that doesn't belong to another instrument. We can even try different sounds while the music is playing. We'll continue to lay down tracks and adjust voices until we've entered them all. We could enter more than one voice at a time although distinguishing instrumentation would be a problem. Then we'll pickup the overall tempo. Unlike changing speeds on a turntable, changing the speed on a synthesizer doesn't alter the pitch. For real-time performance, we'll reserve a voice, plug a microphone into the audio input and sing and play along with the tracks we laid down and edited earlier.

The Commodore 64 is capable of all this - and more -

The Commodore 64 is capable of all this - and more - with the addition of a musical keyboard and software. Mastering a synthesizer, as Peter Nero said, is another matter altogether. Comparatively speaking, I've just

demonstrated chopsticks on an upright piano.

Synthesizers are equipped with a multitude of features. Piano-type keyboards predominate but drum machines and a digital guitar are available too. Coordinating and controlling different brands of electronic music-makers with a computer like the Commodore is now being done through Musical Instrument Digital Interface (MIDI) hardware and software.

A system from CompuSonics will be available early next year which will translate anything audible into digital form directly from a microphone to a disk, for endless manipulation and playback. Initially, the home and studio units will both be compatible only with the IBM-PC but I'll bet the introduction of products like Auricle (specifically for the C-64) will convince CompuSonics of the errors of

their way.

If you've got a Commodore 64 you already have a music synthesizer. All you need to participate fully in this sound revolution is to upgrade the audio and add a keyboard with software. Let me tell you from experience, it sure beats singing in the shower.

#### MIDI

Consider this... Users are clammoring for educational music software. You have the resources to produce it for several personal computers but you need one synthesizer that will interface with them all...

You're lead musician in a performing group. You like the sound of woodwinds on one brand of synthesizer but prefer the horns and strings on another. It's not easy to sing and control two keyboards, a piano and do vocals on-stage but if one keyboard could control the other...

You work in a recording studio and have to synchronize pre-recorded tracks between two synthesizers and a drum machine. Murphy's Law says they're different brands and each has its own timing system...

Dilemmas like these are being solved with an evolving industry-wide standard called Musical Instrument Digital Interface. MIDI involves hardware, software and communications protocol for co-ordinating and synchronizing electronic instruments with each other and (you guessed it!) personal computers. The C-64, and other computers, handle communications, timing and dynamic effects. The units communicate via two 5-pin DIN plugs (MIDI in and MIDI out) on each.

For more information, contact IMA, 8426 Vine Valley Drive, Sun Valley, CA 91352; (818) 767-0597.

#### AURICLE

Most of us don't even notice the split-second timing of music to dramatic action in movies and TV. The music just rides along with the hero on his horse. We would probably take note, though, if the climax sounded two beats before the horse reared and threw him. Film composers juggle three time systems to accomplish this: metronomic time, film speed and real time. "Auricle: The Film Composers Time Processor" was written specifically for the Commodore 64. It takes the drudgery out of producing a variable click track, the audible metromonic beat which musicians follow in the recording studio.

Freeing composers from the tyranny of thick conversion books and digital metronomes is an accomplishment in itself but that's not the only reason Auricle is coming to the attention of people like Commodore Business Machines. It's the way it's done.

Auricle is built upon an operating system that can be personalized to accept any language. The two main screens show recognized commands and vocabulary. The Auricle itself (a little movable input box equated to an ear) will accept any command - including those previously redefined - at any time within the program. Neat, huh? But you might think twice before you get it just to play with: it retails for \$500.

For more info contact: Richard Grant, 3828 Woodcliff Rd., Sheman Oaks, CA 91403



ev: Ted Salamone

Numerous flicks pumped out by Tinseltown have made most of us leery about hypnosis, auto-suggestion, or anything remotely concerned with "mesmerism" or "animal magnetism".

In actuality, the latter two are widely publicized misnomers; a little part of scientific folklore connected to an eccentric 18th century Parisian doctor named Anton Mesmer.

As for hypnosis, it's been a useful tool since long before Dr. James Braid named it after the Greek god of sleep (Hypnos) in 1841. Though some of the earliest surviving records point to the use of hypnotic influences in ancient Egypt, mankind probably wielded its subtle powers much earlier.

Currently, trained hypnotists use the power of suggestion to benefit mankind. People seek this type of treatment to lose weight, stop smoking or drinking, or break other bad habits which have resisted other, more "traditional" remedies and cures.

It is possible for a willing subject to undergo this therapy successfully. A case in point: an acquaintance of mine had been unable to stop smoking; over the years his dependence increased to the point where he was smoking about two packs of cigarettes a day.

Stop smoking classes, sheer willpower (cold turkey), the nagging concern of loved ones, and even nicotine reducing filters were of no avail.

In desperation he turned to hypnotism. Though clearly wanting to break the habit, he had reservations about the validity and usefulness of something he felt had more in common with the occult than with modern medicine.

In spite, or maybe because of his skepticism, three separate sessions did the trick. He hasn't smoked in several years!

Now, instead of trekking to an office for hypnotherapy it is possible, if you own a Commodore 64 with a disk drive or Datasette, to use Psycom Software International's The Hypnotist for similar purposes.

In conjunction with their pulse monitoring biofeedback device, this program delves into the realms of the subsconcious. Individual routines include habit modification, biofeedback, regression (including progression), and superlearning.

You are guided on these forays by Kurian, a video rendition of an ancient, accommodating Egyptian priest with

very influential looking eyes.

Upon startup he asks (displayed text with moving lips!) which program you would like to run. In order to properly use The Hypnotist, the biofeedback segment must be selected initially, and the biofeedback monitor must be placed over the tip of the little finger. (If you have thin digits like my wife the elastic strap will not secure the sensor, another finger must be used.) This determines a target pulse rate for each individual.

Next, answer Kurian's query about target pulse rate. A reply of 99 is recommended so first timers can observe their artual range without difficulty.

their actual range without difficulty.
From there it's a matter of selecting lower and lower targets until the pulse can be reduced no more.

To help reduce the rate, progressive relaxation techniques are listed in the comprehensive, somewhat informal manual. Letting the tension fall or drain away from your body sections one at a time is the prescribed method for accomplishing this feat. Simultaneous reduction of mental stress, also important, is done through controlled breathing. Don't worry! Doing yoga, standing on your head, or chanting mantras aren't necessary.

So prepared, selection of habit modification enters one into a routine where stimuli (specific words) are paired with habit names for reinforcement, alteration, or

eradication.

Accompanied by "restful" music, a picture is displayed depicting an ancient Egyptian woman facing a seated animal-headed, human-bodied god. Focusing on a specific area (participant's choice) is meant to make you susceptible to trance induction. The disk drive whirrs constantly, providing a distraction that's hard to ignore, but not impossible.

After a long or short session (user selectable) with

the art and audio, a purple pendulum appears on-screen.

Swinging to a metronome-like beat, this luminescent bauble suspended on a white string induces the trance. In a second phase it pulsates wildly across the screen, appearing in two areas only.

Next the word pairs flash on-screen. Random association of the habit name(s) with Kurian's or the computerist's

eight inputted words ensures a balanced attack.

Kurian's negative associations are etymological masterpieces such as scab, puke, and urine. They really are a turn off. Effective? No doubt about it!

The other portions run similarly. A quick look at pulse rate, some time spent with the same picture and music; then

on to the pendulum.

Regression is the oddest selection. Beyond the threads of commonality it departs radically. While Kurian "speaks" of associations and remembrances related to the year selected for recall, a Memory Fragments piece plays across the screen. Unique each time, it's basically a patternless depiction of white lines (doodles) and geometric shapes meant to aid the recall process. Offbeat to say the least. In Superlearning, files provided by computerist or

In Superlearning, files provided by computerist or computer are displayed on-screen for educational purposes. These video flash cards can be sent to a printer, or selected words can be replaced by dashes for memory enhancement and other beneficial purposes.

Though The Hypnotist appears to have helped me with a particular problem (deadline associated stress), Psycom does not guarantee that it will get any monkeys off your back

Without proper scientific equipment and procedures it is impossible to be certain the program actually can induce

hypnosis.

What I do know is that the wake up call after trance induction does work. I feel as if I'm being brought out of an altered state. No, not like the one Paddy Chayefsky wrote about. Not even the zombie representations from Hollywood's B movies. More like waking from a light sleep.

The monitored pulse, stress reduction segment really works. Because of it my pulse is lower, and I'm calmer than I've been in a long time. Even with so much to do!

Though there are other apparently useful sections, it is on this one alone that I recommend The Hypnotist.

THE HYPNOTIST DISK / \$87.95

Psycom Software International 2118 Forest Lake Drive Cincinnati, Ohio 45244 (513) 474-2188

## Personal ITY Anal Yzer

by: Not Saltering



Having Psycom International's Personality Analyzer (for the Commodore 64) around is like having a live-in psychologist. This self improvement program is a computerized rendition of the teachings and postulations of

the late Swiss psychologist, Carl Gustav Jung.
As such it delves into the thinking, feeling, sensing, and intuitive aspects of the mind's inner workings in combination with the personality traits which (in summation) label people as either introverts or extroverts. The need to judge (closure) and perceive is also taken into consideration, as follows from Jung's, Keirsey's, and other's works.

The program evaluates, analyzes, and reports on responses subjects make to the tri-level, multi-question (22, 44, or 88 queries per set) survey it performs. As with most things in life, the return (the quality of the analysis in this case) dependends upon the investment (answering 88 questions provides more detail than the other levels are capable of).

The questions themselves are grouped into a series of similar, analogous themes posed with different syntax and slight variations in meaning. After answering each collection of queries the computer cross tabulates the results; thereby producing an incredibly accurate outline of the participant.

Sample questions run the gamut from "Do you prefer the historic or current, the organized or incidental, the concrete or abstract?", to "Do you prefer to evaluate or analyze?" and "Are you more governed by whim or habit, or intuition or experience?"

By developing a subtle pattern of intricacies and gradations the program forces users to open up, to divulge the information needed for an informative personality readout.

This delicately intertwined structure is possible because the Personality Analyzer accepts two dimensional weighted, or bipolar responses to questions. Though such a situation can occur with practically any of the queries, one example should suffice.

In response to the interrogatory remark, "Are you more reserved or approachable", someone might legitimately consider several different scenarios where either answer would be correct. Instead of forcing a black and white answer to an unmistakably grey question, respondents can (via a joystick), split the reply proportionally along both

This feat is accomplished easily because each question appears on-screen with a histogram, the left and right sides of which are labelled according to the choices offered. The levels of commitment, which range from zero to seven, provide sufficient latitude for an accurate portrayal of your feelings, attitudes, and beliefs.

Moving the joystick right or left positions a selector arrow above a portion of the histogram. Depressing the firebutton enters the reply into the file.

By pulling the controller backwards it is possible to split the selector for placement on both sides of the chart. Once set, activating the firebutton enters the Janus-faced decision.

Participants are permitted to skip a query or return to the prior question for a change of heart. Both options are also joystick manipulative; hitting the fire button with the selector at zero brings up the next query, pushing the stick away from you recalls the prior one. The latter function erases the original input, clearing the way for the new entry.

Weighted responses have an audio feedback feature which lets respondents know just where the selector is on the scale. This helps in keeping one's mind on the matter at

hand.

Psycom Software does have a disclaimer stating that the Personality Analyzer is an entertainment package not meant as a substitute for professional treatment. Though true, this does not diminish the value of any insights which can be gained from it.

Once completed the survey results are tabulated and presented on-screen. Output to a printer is possible through a user selectable option.

The first part of the readout lists a personality type and assigns numerical values to various categories such as extrovertive, intuition, thinking, and judging, as well as their antitheses, introvertive, sensation, feeling, and perceiving. The categories with the highest values become

part of your personality type diagnosis.

The report continues with a classification of the respondent's general personality type, e.g., scientist or

journalist.

Next comes a collection of the attributes and characteristics typical of the general personality type the participant has been categorized under. Possible occupations and behavior as a mate are briefly depicted. A topic, idea, or item valued above all else (privacy or independence for example), and potential trouble spots (stubborness, lack of emotional understanding, (stubborness, procrastination) are also mentioned.

As with similar, non-professional analyses of this nature (even more so for the less substantive and highly questionable practices of astrology, phrenology, and tarot card reading), caution and prudent judgement should be used

when interpreting the data created.

The Personality Analyzer is at its best when honest answers are provided to the full bank of 88 questions. It is particularly enlightening and entertaining at a party or small gathering. Parts of the readout are on the money, others appear to be off the mark. Naturally this can be expected, for the need to work within a framework broad enough to include most of the populace will result in some ambiguities and errors as applied to each specific case.

PA is a unique, thought provoking program useful for semi-serious as well as lighthearted applications. Since personal computers are all about learning, the Personality Analyzer fits right in. Instead of hardware or programming, you'll learn about human nature. That alone is worth the

investment.

PERSONALITY ANALYZER DISK / \$32.95

Psycom Software International 2118 Forest Lake Drive Cincinnati, Ohio 45244 (513) 474-2188

# 

### by: Merry C. Orocco

PROGRAMMING LANGUAGES ARE LIKE CARS: SOME ARE FAST, SOME ARE EFFICIENT, SOME ARE FLASHY AND LOADED WITH FEATURES, AND SOME ARE COMPACT AND ECONOMICAL. AND, NO MATTER WHICH ONE YOU HAVE, YOU ALWAYS SEEM TO BE SHOPPING FOR ONE THAT'S BETTER. WELL, I CAN'T HELP YOU FIND A BETTER CAR, BUT I CAN RECOMMEND A BETTER, FASTER, AND CHEAPER PROGRAMMING LANGUAGE. IT'S A FLASHY LITTLE EUROPEAN IMPORT CALLED COMAL.

YOU MAY NOT HAVE EVER HEARD OF COMAL, BUT IT IS A WELL-ESTABLISHED LANGUAGE WITH A TEN-YEAR HISTORY. (THE NAME IS UNFORTUNATE: PEOPLE OFTEN DISMISS IT OUT OF HAND BECAUSE THEY CONFUSE IT WITH THE BUSINESS LANGUAGE COBOL.) COMAL IS VERY POPULAR IN EUROPE, AND IS THE OFFICIAL LANGUAGE TAUGHT IN THE SCHOOLS OF SEVERAL EUROPEAN COUNTRIES. IT IS ALSO GAINING A FOLLOWING HERE AMONG BOTH EDUCATORS AND HOBBYISTS. VERSIONS OF COMAL ARE NOW AVAILABLE FOR ALL COMMODORE COMPUTERS EXCEPT THE VIC-20, THE APPLE WITH Z-BO CARD, AND SOME EUROPEAN MACHINES. AN IBM PC/PC JUNIOR VERSION IS ALSO IN THE WORKS. AND WHEN THIS BECOMES AVAILABLE IT IS SURE TO GIVE A GREAT BOOST TO THE COMAL "MOVEMENT".

"...the cost is about as reasonable as you can get: it's free."

WHY ALL THE ENTHUSIASM? BECAUSE COMAL IS A COMPOSITE OF THE BEST FEATURES OF THE MOST POPULAR PROGRAMMING LANGUAGES. IT COMBINES THE FAMILIARITY OF BASIC COMMANDS WITH THE STRUCTURED PROGRAMMING ENVIRONMENT OF PASCAL AND, IN THE COMMODDRE 64 VERSION, THE TURTLE GRAPHICS OF LOGO. IT ALSO INCORPORATES A "THRÉE-PASS RUN-TIME COMPILER" THAT MAKES COMAL AN AVERAGE OF THREE TIMES FASTER THAN BASIC. AND THE COST IS ABOUT AS REASONABLE AS YOU CAN GET: IT'S FREE. IF YOU CAN FIND COMAL AT SCHOOL OR IN YOUR LOCAL USERS GROUP, YOU CAN MAKE A COPY FOR YOUR OWN USE. IF YOU CAN'T FIND IT, YOU CAN GET A COPY WITH DEMO PROGRAMS FOR \$19.95 +\$2.00 SHIPPING FROM THE COMAL USERS GROUP, USA, LTD.

THE CURRENT VERSION OF COMAL FOR THE COMMODORE 64 IS COMAL 0.14. IT IS DISK-LOADED AND COMES WITH DEMO PROGRAMS AND HELP FILES. THE HELP FILES CONTAIN LISTS OF COMAL KEYWORDS, WITH EXAMPLES OF PROPER SYNTAX; THE DEMO PROGRAMS WILL SHOW YOU HOW TO USE COMAL COMMANDS AND TURTLE GRAPHICS. A SINGLE-DRIVE DISK-COPY UTILITY IS INCLUDED TO HELP YOU MAKE BACKUP COPIES FOR YOURSELF AND COPIES TO GIVE TO YOUR FRIENDS!

IF YOU ARE MAKING THE TRANSITION FROM BASIC, MANY OF COMAL'S KEYWORDS WILL BE FAMILIAR TO YOU: LOAD, LIST, RUN, NEW, PRINT, AND SO ON. AT LEAST HALF OF COMAL'S COMMANDS LOOK AND ACT EXACTLY THE SAME AS THEIR BASIC COUNTERPARTS. SEVERAL MORE ARE ALMOST IDENTICAL, SUCH AS COMAL'S "CON" VERSUS BASIC'S "CONT" FOR THE CONTINUE COMMAND. A FEW OTHERS WILL TAKE A LITTLE GETTING USED TO. FOR EXAMPLE, COMAL'S "GOTO" COMMAND DOES THE SAME THING AS BASIC'S, BUT REFERENCES A LABELED LINE INSTEAD OF A LINE NUMBER.

THOSE WHO ARE CURRENTLY PROGRAMMING IN PASCAL WILL ALSO FIND FAMILIAR FEATURES IN COMAL. IT SUPPORTS SUCH POWERFUL STRUCTURED PROGRAMMING FEATURES AS IF-THEN-ELIF-ELSE AND CASE-OF-WHEN-OTHERWISE CONDITIONALS. (BASIC PROGRAMMERS: IF THESE AREN'T FAMILIAR TO YOU, DON'T WORRY. THE FIRST IS JUST A POWERFUL MULTIPLE-CHOICE IF-THEN STATEMENT. AND THE SECOND IS A VASTLY IMPROVED VERSION OF "ON X GOTO".) COMAL ALSO USES NAMED PROCEDURES AND FUNCTIONS RATHER THAN BASIC'S MORE CUMBERSOME SUBROUTINES. FUNCTIONS AND PROCEDURES MAY BE OPTIONALLY DECLARED CLOSED, SO THAT ALL VARIABLES BECOME LOCAL VARIABLES. THIS ALLOWS YOU TO USE THE SAME VARIABLE NAMES IN PROCEDURES AND FUNCTIONS AS ARE USED IN THE MAIN PROGRAM WITHOUT PERMANENTLY AFFECTING THEIR VALUES.

COMAL'S TURTLE GRAPHICS ARE THE BEST AVAILABLE ANYWHERE. THE COMMANDS ARE VIRTUALLY IDENTICAL TO COMMODORE LOGO, BUT THE TURTLE IS FASTER. BESIDES THE TURTLE, THERE ARE ALSO POINT-PLOT GRAPHICS COMMANDS WHICH ALLOW YOU TO PLOT USING X-Y COORDINATE GRAPHICS (THIS INCLUDES FILL, THE MOST USEFUL AND NEGLECTED OF ALL GRAPHICS COMMANDS!) SPRITES CAN BE EASILY DEFINED AND MANIPULATED, TOO. IN ALL, THERE ARE OVER 50 GRAPHICS COMMANDS.

"COMIL's turtle graphics are the best available anythere...there are over 50 graphics commuts.

DISK I/O, PRINT FORMATTING, AND KEYBOARD INPUT ARE ALL IMPROVED OVER BASIC, WITH ADDITIONAL KEYWORDS TO SIMPLY DO MANY THINGS THAT WERE IMPOSSIBLE OR REQUIRED MACHINE CODE LINKS TO DO FROM BASIC. HOWEVER, IF YOU FEEL THE NEED TO LINK INTO MACHINE LANGUAGE, THE FAMILIAR PEEK, POKE, AND SYS ARE STILL AVAILABLE.

THE MANUAL FOR THIS LANGUAGE IS THE "COMAL HANDBOOK" BY LEN LINDSAY, AVAILABLE SEPERATELY FOR \$18.95 + \$2.00 SHIPPING. YOU NEED THE HANDBOOK TO BE ABLE TO USE COMAL EFFECTIVELY. IT EXPLAINS THE PROPER SYNTAX FOR COMMANDS AND HOW THEY WORK, AND GIVES CLEAR EXAMPLES OF HOW TO USE THEM. THE BOOK IS WELL-ORGANIZED AND CLEAR (IT'S GENERALLY REGARDED AS ONE OF THE BEST REFERENCE BOOKS AROUND FOR ANY PROGRAMMING LANGUAGE, PERIOD) AND IS THE PERFECT REFERENCE TOOL FOR THOSE WHO ARE ALREADY PROGRAMMING. SINCE THE MANUAL IS INTENDED TO DOCUMENT ALL OF THE COMMODORE VERSIONS OF COMAL, AND THE TURTLE GRAPHICS EXTENSIONS ARE UNIQUE TO THE COMMODORE 64 IMPLEMENTAION, THEY ARE NOT DOCUMENTED IN THE COMAL HANDBOOK. A GRAPHICS MANUAL IS PROMISED FOR LATER THIS YEAR; UNTIL THEN, YOU WILL HAVE TO FIGURE OUT THE GRAPHICS WITH THE AID OF THE DISK HELP FILES. A GOOD LOGO BOOK MIGHT HELP, TOO, SINCE THE TURTLE GRAPHICS ARE ALMOST IDENTICAL TO LOGO'S. IF YOU ARE A PROGRAMMING NOVICE, OTHER INSTRUCTIONAL BOOKS ARE AVAILABLE, SUCH AS "BEGINNING COMAL" BY BORGE CHRISTENSEN, THE ORIGINATOR OF THE LANGUAGE. A COMPANION DISK IS ALSO AVAILABLE FOR EACH BOOK AT ADDITIONAL COST.

THE EDITOR IS ONE OF THE BEST FEATURES OF COMAL. BESIDES SUPPORTING THE C64'S BUILT-IN FULL SCREEN EDITOR, THE COMAL EDITOR FEATURES AUTOMATIC LINE NUMBERING AND RENUMBERING AND CHECKS SYNTAX AS YOU ENTER YOUR PROGRAM. IF YOU MAKE AN ERROR, YOU ARE TOLD WHAT THE ERROR IS AND THE CURSOR IS PLACED AT THE POINT IN THE LINE WHERE THE ERROR OCCURS. WHEN YOU HAVE TYPED IN THE CORRECTION, THE ERROR MESSAGE DISAPPEARS FROM THE SCREEN, REPLACING ANY TEXT THAT IT MAY HAVE OVERWRITTEN. WHILE IT IS STILL POSSIBLE TO MAKE LOGICAL PROGRAMMING ERRORS IN COMAL, THE EDITOR MAKES IT IMPOSSIBLE TO END UP WITH ANY SYNTAX ERRORS.

COMAL PROGRAM LISTINGS ARE UNIQUE, TOO. THEY RESEMBLE PASCAL "PRETTY" LISTINGS, WITH AUTOMATIC INDENTATION OF PROGRAM STRUCTURES AND LOOPS. LINE NUMBERS ARE RETAINED FOR EASE OF EDITING, EVEN THOUGH THEY ARE NOT USED BY THE PROGRAM ITSELF. THIS POWERFUL EDITOR MAKES COMAL THE MOST USER-FRIENDLY LANGUAGE AROUND.

```
0010
0020
0030
0040
0050
0060
        // pretty listing demo
        repeat
b:=0
          while b<3 do
b:=b+1
            for x:=0 to 6 do
              case x of when 0,2,4,6 if x=0 then print " x
0100
0110
01120
01130
0150
0150
0170
0170
                              x = 0"
                else
                               x is even"
                 print
              endif
when 1,3,5
if x=1 then
print "x
                               x = 1"
                else
                 print "x is odd"
   90
                endif
              endcase
            endfor x
          endwhile
        until rnd(0,5)=false
```

LIKE BASIC, COMAL IS AN INTERACTIVE LANGUAGE. THIS MEANS THAT YOU CAN "TRY OUT" YOUR CODE AS YOU GO BY RUNNING ALL OR PART OF THE PROGRAM. THIS ABILITY IS TAKEN FOR GRANTED BY MOST BASIC PROGRAMMERS, BUT TO ANYONE WHO USES A LANGUAGE LIKE PASCAL, WHICH REQUIRES A SEPERATE EDITOR AND COMPILER, IT CAN SAVE MANY HOURS OF SWAPPING FILES DURING THE DEBUGGING PROCESS.

COMAL IS AN EXCELLENT LANGUAGE, BUT NOTHING IS PERFECT. A
FEW FAMILIAR KEYWORDS ARE MISSING, SUCH AS CLR, WAIT, TI\$,
AND STR\$. IN MOST CASES, IT IS POSSIBLE, HOWEVER, TO
DEFINE A PROCEDURE OR FUNCTION TO TAKE THEIR PLACE. THERE
ARE ALSO NO SOUND COMMANDS, AN OMISSION SHARED WITH MOST OF
THE LANGUAGES NOW AVAILABLE FOR THE COMMODORE 64; IT'S A
SHAME THAT THE SID CHIP IS SO OFTEN OVERLOOKED. THE ONLY
REALLY SERIOUS DRAWBACK TO DISK-LOADED COMAL VERSION 0.14
IS THAT IT LEAVES YOU WITH ONLY ABOUT 10K OF AVAILABLE

MEMORY. (THERE IS ADDITIONAL SPACE RESERVED FOR THE 8K HI-RES SCREEN, SO HI-RES GRAPHICS WILL NOT EAT UP PART OF YOUR PROGRAM MEMORY.) EVEN WITH THE MEMORY-SAVING STRUCTURED PROGRAMMING ENVIRONMENT OF COMAL, THIS WILL PROBABLY LIMIT YOU TO GAME AND HOME APPLICATIONS.

"COML...is the official language taught in the schools of several European countries."

ON THE PLUS SIDE, THE DISK VERSION OF COMAL IS COPYABLE AND FREE. THIS MAKES IT PERFECT FOR SCHOOL SYSTEMS WHICH WISH TO TEACH GOOD PROGRAMMING SKILLS, AND FOR USERS'S GROUPS AND INDIVIDUALS WHO WANT A LANGUAGE FOR THEIR PERSONAL APPLICATIONS THAT IS POMERFUL, FRIENDLY, AND INEXPENSIVE. BUT WHAT ABOUT THE PROFESSIONALS WHO NEED MORE MEMORY FOR COMPLEX APPLICATIONS? WELL, FOR NOW IT IS POSSIBLE TO CHAIN PROGRAMS TOGETHER AND SHARE DATA FILES, A LESS THAN PERFECT SOLUTION BUT ONE THAT WORKS. AND LATER THIS YEAR, A CARTRIDGE CONTAINING THE EVEN MORE POWERFUL VERSION 2.00 COMAL IS PROMISED FROM NONE OTHER THAN COMMODORE ITSELF, AND IT WILL OVERCOME ALL OF THE NEGATIVES I'VE MENTIONED. VERSION 2.00 WILL LEAVE ABOUT 30K OF AVAILABLE MEMORY. AND WILL INCLUDE SOUND COMMANDS, ADVANCED LOOP STRUCTURES, STR\$, TIME, EXTERNAL PROCEDURES, AND MUCH MORE, AND SHOULD RETAIL FOR UNDER \$100. THIS MAKES IT A BETTER FEATURES-PER-DOLLAR BARGAIN THAN ANY OTHER LANGUAGE CURRENTLY AVAILABLE FOR THE COMMODORE 64. THE ARGUMENT, THEREFORE, IS TO GET DISK-LOADED COMAL VERSION 0.14 NOW AND LEARN TO USE IT, AND THEN ADVANCE TO THE CARTRIDGE VERSION WHEN IT BECOMES AVAILABLE IF YOU NEED THE ADDITIONAL PROGRAMMING POWER. I BELIEVE THAT THOSE WHO JOIN THE 50,000 PEOPLE ALREADY PROGRAMMING IN COMAL MAY WELL PROVE TO BE THE PIONEERS OF THE STANDARD PROGRAMMING LANGUAGE OF THE NEXT DECADE.

SUPPORT FOR COMAL HERE IN THE U.S. COMES FROM THE COMAL USERS GROUP, WHICH IS CAPTAINED BY LEN LINDSAY, THE FATHER OF COMPUTE! MAGAZINE. THEY CAN SUPPLY COMAL INFORMATION, BOOKS, AND DISKS, AS WELL AS THE LANGUAGE ITSELF. CONTACT:

COMAL USERS GROUP USA LIMITED 5501 GROVELAND TERRACE MADISON, WI 53716

## Omieriter Unierell

BY: Don Vandeventer

Have you ever wanted something so bad you just couldn't see straight? I wanted a computer that bad. I must have looked at over twenty different models, but I just couldn't afford 2 or 3 thousand dollars for one! I never bothered looking at the Commodore 64. After all, how good could it be if they sold them at K-Mart? Right?

Then, in January of this year, after watching a salesman demonstrate OmniWriter by HesWare on the Commodore &4. I was sold. By the end of the week I was the proud owner of a new Commodore &4, disk drive, printer and the OmniWriter word processing program. To my surprise, I even had change back from my "thousand dollar bill".

Today I have two complete systems, and, although I've tried more than a dozen other word processing programs, I keep going back to OmniWriter. I've used it to write two books, edit another, and start a third. Many articles, day-to-day correspondence, and over 200 form letters at one time have been prepared on it.

The program is easy to use and it has most of the features that you expect to find in a truly professional word processing program. In most cases, the manual is easy to follow. Best of all, instead of taking a week or more to learn. OmniWriter can be learned in a few hours.

A separate "quick reference card" lists the main commands. Each command on the card is followed by the section number of the manual where the command is explained. There are 20 editing commands activated by the CBM key and 14 commands activated by the CTRL key for formatting your text. Eight function key commands are used for moving through the text and for inserting or deleting text.



In addition to these, there are features that are often found only in programs costing much more:

Full cursor control

permits writing and editing in the same mode.

Word wrap

drops the word to the next line instead of breaking the word if it is too long.

Varied margins

permits the widths of your margins to be changed within the text.

Justified margins

is a feature that prints both left and right edges of a column of text in a straight line. Text can also be printed with a ragged right margin like a typewriter.

Unlimited tab stops and/or numerical tab stops

permits as many tab stops as you have columns. Tab stops work just like a typewriter. Numerical tabs automatically line up the column with the decimal point or last digit.

Line spacing from 1 to 9 blank lines

can be set for the entire text or varied within the text if desired.

Automatic pagination

will print the page number at either the top or bottom of your text.

Document linking

allows you to print a continuous document that can fill the entire disk.

Printer pause

permits use of either single sheet or fanfold paper.

Special printing codes

can be added for printers that print italics, or other special type forms.

Document merge

word processing files can be merged using OmniWriter.
The program will also load some sequential files as
a document for editing and use in a text.

Merging

for printing form letters.

Editing

is easy and fast. Text may be moved, copied, or deleted in any size block. Text may also be inserted in any amount at any place you choose.

After loading OmniWriter you see the first of three menus (fig. 1). From this main menu you may access saved documents, create a new document, view the disk directory, format a new disk, or scratch a document from a disk.

The print menu (fig. 2) is another example of how easy OmniWriter is to use. The manual includes an entire chapter to help with document printing, but after a few times you will probably not need to refer to it.

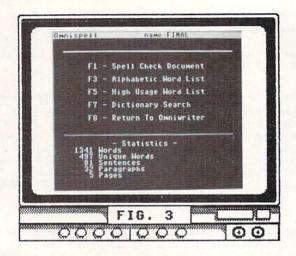


The third menu appears when you load OmniSpell (fig. 3). OmniSpell is one of the main reasons that I bought the program. It not only checks your spelling against a 30,000 word dictionary but also compiles an alphabetical word list, a high usage word list, and counts the number of words in the text. As an added bonus, you may add an additional 20,000 words of your own making it one of the largest dictionaries available for the Commodore 64.

After OmniSpell checks the spelling, the unrecognized words are highlighted. You have the choice of accepting the word as is, correcting it, and/or adding the word to the dictionary.

To my surprise, my own spelling has improved since I started using OmniSpell. At times I even make a game of spell checking trying to have as few misspelled words as possible. (Now if only my 13 year old son would play!)

Although the text displayed is only 40 columns wide by 21 lines, OmniWriter provides a work space 240 columns wide (fig. 4). The text scrolls horizontally as you work. To avoid scrolling, there is a margin override to bring the text into 40 columns. Remember to turn off the margin override before printing or you will print only 40 spaces wide.

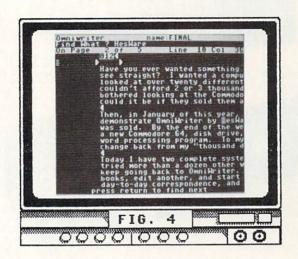


Another great feature is the "work page". Information on the work page will not be printed out unless you use the merge command. This allows you to write notes concerning the document. The work page is also used if you wish to do a mail merge. First the names, addresses, and any other information to be merged are typed on the work page. Then your letter is typed in the main text area. When printing, the information from the work page can be merged into the text for form letters. I have used this to create a form letter for 200 companies yet each letter was addressed to the right person, department, and company.

A few data base programs on the market can be merged with OmniWriter making the job of form letters easier. The best I have found is Superbase 64 by Precision. The Multiplan spreadsheet by HesWare can also be merged, increasing its usefulness for small businesses.

While maximum document length is 34,000 characters, about 6,000 words, you may link more than one document together. As a full disk will hold 170K, you could, as I have done, link an entire disk with each page numbered in order.

Is OmniWriter the perfect program? No! It has some faults that at times make me want to find the programmer and \*\*%!! The first of these faults is that OmniWriter does not allow you to set the top and bottom margins so that they will be automatically adjusted for every page. You must enter the "end of page" markers for each page. Although I prefer this to the programs that will not permit forced page ends, setting 200 pages for a book takes time.



The second fault is a bug in the program. Suppose you have saved a document called "article 1" and then want to change the name to "article 2" and save it. Later, when you try to call up "article 2" you will get "article 1". Your saved "article 2" is lost forever. There is a way around this. Just call the second document "2 article".

I have learned to live with these small problems because I have found OmniWriter to be an easy program to use and very versatile. With as much writing as I do, this means a lot. I haven't seen anything that can compare, and as it costs only \$69.95, it's a real bargain.

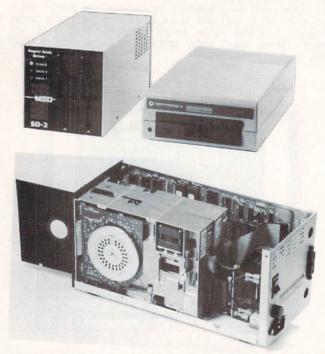
OmniWriter & OmniSpell DISK / \$69.95

Human Engineered Software 150 N. Hill Drive Brisbane, CA. 94005 (800) 227-6703

Don Vandeventer is the author of several books for home businesses. His newest, THE SMALL BUSINESS GUIDE TO THE COMMODORE 64, is an in depth review of hardware, business software and income opportunities for the home based business. It is available from Work At Home Press, P.O. Box 5520, Dept. I, Ocala, FL 32678.

Editor's note: We agree with the reviewer's assessment of OmniNriter's quality ANB we have some #\$1&'s of our own. A few minor oversights in the documentation can lead to difficulties for beginners. The assistance of a users' group or an experienced OmniNriter user would be helpful for newcomers. Consult the product roundup section for brief reviews and ratings of other wordprocessors.

## MSD SD-2



THE MSD DUAL DRIVE IS A WELCOME PRODUCT TO THOSE 64 OWNERS WHO NEED GREATER STORAGE. SPEED, & RELIABILITY IN THEIR COMPUTER APPLICATIONS. \$695.00 ISN'T PEANUTS, BUT THIS UNIT CAN PAY FOR ITSELF IF YOU HAVE INTENSIVE BUSINESS APPLICATIONS AND LARGE DATABASES, ETC. (LOOKING BACK, I DON'T KNOW HOW WE EVER GOT ALONG WITHOUT ONE!)

THE FIRST THING YOU'LL NOTICE UPON TAKING THIS ITEM OUT OF THE PACKING BOX, IS HOW HEAVY IT IS. HEFTING THIS DRIVE, YOU HAVE THE DISTINCT FEELING THAT IT'S NOT GOING TO FALL APART (AND OURS HASN'T EVEN MADE AN UNTOWARD NOISE THRU 5 MONTHS OF 12 HR, DAYS).

THERE ARE SOME NOISES, HOWEVER; THEY ARE THE SECOND THING YOU'LL NOTICE (I JUMPED FOR THE POWER SWITCH THE FIRST TIME BECAUSE I THOUGHT IT WAS DAMAGING ITSELF!) THE MSD SUPER DISK IS LOUDER THAN 20 1541'S GOING AT THE SAME TIME, BUT I ASSURE YOU, IT'S HARMLESS AND YOU MAY EVEN GET USED TO IT.

ONE OF THE NICEST THINGS ABOUT THE MSD SUPER DISK IS THE ABILITY TO MAKE STRAIGHT BACKUPS IN ABOUT 1.5 MINUTES. THE VALUE OF THIS IS HARD TO JUDGE: I USED TO MAKE BACKUPS ABOUT ONCE A WEEK (WITH SOME DISASTEROUS RESULTS). NOW I MAKE BACKUPS SEVERAL TIMES A DAY OF MY CRITICAL DATA DISKS. I'M SURE I HAVE SAVED THE COST OF THE DRIVES 3 TIMES OVER IN SAVED LABOR FROM HAVING TIMELY BACKUPS WHEN A DISK WENT SUNNY-SACK.

THE COMPATIBILITY OF THE MSD SUPER DISK IS GENERALLY QUITE GOOD: 98% OF COMMERCIAL 64 SOFTWARE SEEMS TO RUN ON IT WITH NO PROBLEM IN THE SERIAL CONFIGURATION. THE PARALLELL OPTION (NEED EXTRA CABLE AND INTERFACE) IS ATTRACTIVE FROM A SPEED STANDPOINT (2 TO 3 TIMES FASTER), BUT I FOUND THAT ONLY HALF THE COMMERCIAL PROGRAMS WILL RUN WITH MSD'S PARALLELL SET-UP (STRANGELY, MANY MORE WILL RUN WITH BATTERIES INCLUDED'S BUSCARD II!).

IN SUMMARY I HIGHLY RECOMMEND THE MSD SUPER DISK AND COMMEND MSD FOR FIELDING A THIS QUALITY PRODUCT.

MICRO SYSTEMS DEVELOPMENT (MSD) \$695.00

## Financial cookbook



WE'VE SEEN LOT'S OF 'ALMOST' PROGRAMS THAT PROMISE TO HELP FIGURE MORTGAGES & AMORTIZATION ETC. NOW ELECTRONIC ARTS HAS COME OUT WITH ONE OF THE MOST USEFUL LITTLE UTILITY PACKAGES YET FOR THE BEFUDDLED HOME-OWNER OR NEWCOMER TO THE DIZZY WORLD OF CONSUMER FINANCES.

SEVERAL THINGS SET FINANCIAL COOKBOOK APART FROM THE OTHER 'MONEY' PROGRAMS: FIRST, YOU'VE GOT THE HIGH-SPEED MENU WITH A SELECTION BAR THAT SLIDES UP AND DOWN THE SCREEN OVER DOZENS OF HEADINGS LIKE "VARIABLE RATE AND PAYMENT MORTGAGES" AND "BUYING OR LEASING A CAR" (ALMOST EVERY NASTY FINANCIAL PREDICAMENT IS REPRESENTED WITH A SLICK LITTLE PROGRAM THAT WILL WHIP IT INTO SUBMISSION). THERE IS ALSO A STATUS MENU THAT TAKES YOU TO DIFFERENT ASPECTS OF THE PROGRAM.

ANOTHER VALUABLE ELEMENT IS THE DEPTH OF THESE MODULES: THESE ARE NOT SIMPLE TIMES, AND SIMPLE MATH WILL NOT LET YOU MAKE KEEN DECISIONS REGARDING YOUR FINANCES. FINANCIAL COOKBOOK WEIGHS IN THE MORE SUBTLE FACTORS LIKE INFLATION, FUTURE CONDITIONS, AND TAX RATES.

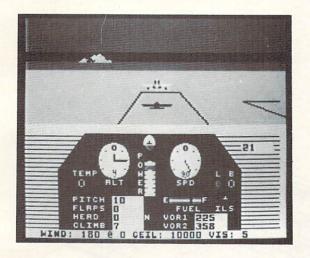
ONCE YOUR HAVE ENTERED THE PROPER VALUES, YOU CAN LOOK AT THE RESULTS AND, IF NECESSARY, CHANGE THE PARAMETERS FOR A REAL 'MHAT-IF' INVESTIGATION OF YOUR OPTIONS.

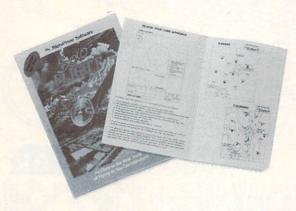
WHEN YOU HAVE THE FIGURES YOU LIKE (OR EVEN IF YOU DON'T LIKE THEM), YOU CAN DUMP THE WHOLE THING OUT TO YOUR PRINTER FOR A NICE PERMANENT RECORD. (SUITABLE FOR TROTTING DOWN TO THE BANK WITH).

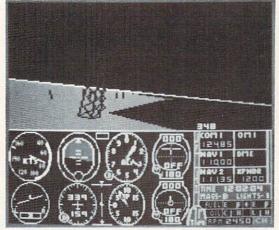
ELECTRONIC ARTS HAS HAD SEVERAL BIG WINNERS IN THE ENTERTAINMENT FIELD, NOW THEY HAVE ONE IN THE 'SERIOUS' CATEGORY, AND I HOPE WE CAN LOOK FORWARD TO SOME MORE SOON!

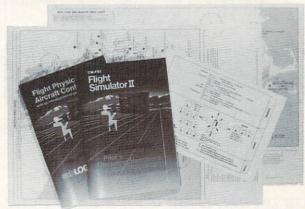
(ELE) DISK \$50.00

## FLYING THE COMMODINE GY I









IF YOU ALREADY HAVE A COMMODORE 64, THEN YOU CAN ALSO HAVE A NICE HI-PERFORMANCE AIRCRAFT AND FLIGHT LESSONS FOR AN ADDITIONAL \$35 TO \$50! WELL, THAT IS YOU CAN HAVE EVERYTHING AN AIRPLANE OWNER HAS EXCEPT THE UPKEEP, STORAGE, FUEL COST, INSURANCE, AND DANGER.

SHOWN ABOVE ARE THE BEST AND THE SECOND BEST FLIGHT SIMULATOR PROGRAMS AVAILABLE TODAY. FLIGHT SIMULATOR II IS THE BEST. (SOLO FLIGHT IS NOT TOO FAR BEHIND.) BOTH HAVE EXCELLENT 'REAL-TIME' GRAPHIC DISPLAYS SHOWING THE WORLD FLYING BY (OR THE GROUND RUSHING UP!). BOTH HAVE STANDARD INSTRUMENT CLUSTERS SHOWING CONSTANT UPDATES ON CONDITIONS LIKE AIR SPEED, ALTITUDE, FUEL LEVEL, FLAPS, HEADING, ETC. FLIGHT SIMULATOR II HAS A REALISTIC "COCKPIT" VIEW, WHILE SOLO FLIGHT VIEW SHOWS THE ENTIRE PLANE (WITH A REALISTIC SHADOW RIPPLING OVER THE GROUND AT LOW ALTITUDE).

BOTH FLIGHT SIMULATORS ALSO HAVE GAME MODES: FLIGHT SIMULATOR II TAKES YOU BACK TO WORLD WAR I AND LETS YOU FLY AROUND A MICRO-WORLD AT WAR IN YOUR DOUBLE WINGER ELUDING THE RED BARON AND HIS GANG, SOLO FLIGHT, ON THE OTHER HAND, TAKES A MORE PACIFISTIC APPROACH WITH AN AIR-MAIL GAME (THE LATTER WILL TEST YOUR LANDING SKILLS MUCH MORE.)

SPEAKING OF LANDING, DON'T BE SURPRISED IF IT TAKES YOU A WHILE TO LEARN THIS MOST-IMPORTANT FLYING SKILL. IT TOOK ME TWO HOURS BEFORE I COULD SET MY PIPER CHEROKEE DOWN AT SEATAC INTERNATIONAL WITHOUT WASTING IT!

HOW GOOD ARE THESE SIMULATIONS? WELL, FLIGHT SIMULATOR II IS TRYING TO GET FAA RECOGNITION AS A BONA-FIDE GROUND-SCHOOL COMPONENT. PERSONALLY, IF FIND THE EFFECT TOTALLY CONVINCING AFTER ABOUT 5 MINUTES OF FLYING, AND I'M SURE MY HEART RATE INCREASES SIGNIFICANTLY WHEN I GO INTO AN IRRECOVERABLE DIVE!

SO WHAT'S THE DIFFERENCE BETWEEN THE TWO IF THEY BOTH SHARE SO MANY FEATURES? IT'S A MATTER OF DEGREE. FLIGHT SINULATOR II IS JUST MORE-SO IN EVERY CATEGORY. MORE DETAIL, SHARPER GRAPHICS, MORE CONTROL OVER CONDITIONS, MORE ELABORATE, (MORE EXPENSIVE). EITHER ONE IS A REAL TREAT, BUT FLIGHT SINULATOR II GOES UP AS ONE OF THE BEST 5 RECREATIONAL PIECES EVER WRITTEN FOR THE 64.

FLIGHT SIMULATOR II SUBLOGIC (SUB) DISK / \$49.95

SOLO FLIGHT MICROPROSE SIMULATIONS (MPS) DISK / \$34.95

## COUNTEST UNITEDS



IN THE LAST ISSUE, HE ASKED READERS TO DESIGN A COMPUTER THAT HOULD BE THEIR IDEA OF A HORTHY SUCCESSOR TO THE COMMODORE 64. MELL, MHEN HE SAN DAVID SPEAR'S MINNING ENTRY, HE MERE SORRY HE COULDN'T PLACE AN ORDER ON THE SPOT! THANKS TO EVERYONE WHO ENTERED AND SENT SUCH GREAT IDEAS—IT'S TOO BAD HE DON'T HAVE ROOM TO SHOW THEN ALL. FOR HIS EFFORTS, DAVID HINS A CASH ANARD OF \$64.00 AND THE AMAZING ERG-BOARD! OUR RUNNERS-UP HILL ALSO EACH RECEIVE ERG-BOARDS.

HHAT FOLLOWS IS A CONDENSED VERSION OF THE SIX PAGES OF DETAILED SPECS AND DESCIPTIONS SUPPLIED BY MR. SPEAR:

### PRESS RELEASE

AN 8 LB. LAP PORTABLE WITH AN 800K DISK, 512K OF BATTERY-PROTECTED RAM, A CLOCK THAT CAN TURN THE COMPUTER ON OR OFF, AN 80 CHARACTER BY 25 LINE LCD, AND AN ACCESSORY MONITOR THAT CAN DISPLAY UP TO 60 LINES OF 160 CRYSTAL-CLEAR CHARACTERS IN VARIOUS FONTS AND SIZES; THE NEW C64+. WITH A STARTING PRICE OF \$1495 (INCLUDES DISK, 256K RAM, & LCD DISPLAY) IS EXPECTED TO BE THE COMPUTER PRODUCT OF THE YEAR.

THE 64+ RUNS ON AC OR 5-HR. RECHARGEABLE BATTERIES. ON POWER-UP, THE OWNER'S NAME APPEARS, AND A 3-CHARACTER PASSWORD MUST BE ENTERED BEFORE THE KEYBOARD CAN BE USED FURTHER. THE 110-KEY KEYBOARD HAS EXCELLENT FEEL.

DEDICATED KEYS SUPPORT A UNIQUE WINDOW ENVIRONMENT. FAST SCROLLING, CATALOG SYSTEM, MACROS, AND SINGLE-KEY ENTRY OF THE MOST COMMON ENGLISH WORDS. THE 20 FUNCTION KEYS CAN BE LABELED BY A REFERENCE STRIP, LCD, OR BOTTOM LINES OF THE OPTIONAL TOUCH-SCREEN MONITOR. THE KEYBOARD DOUBLES AS A MULTI-MODE CALCULATOR SUPPORTING ALGEBRAIC, REVERSE POLISH, DECIMAL, & HEX NOTATIONS.

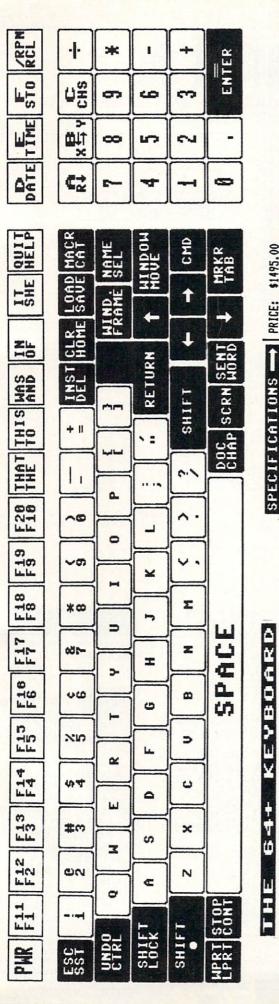
BUILT-IN SOFTWARE INCLUDES BASIC, C-LANGUAGE, INTEGRATED WORD-PROCESSING, SPREADSHEET, AND DATABASE MANAGEMENT.

OPTIONAL DISPLAYS INCLUDE EVERYTHING FROM COLOR TV'S TO A SPECIAL 60 LINE BY 160 CHARACTER VERTICAL SCREEN CAPABLE OF DISPLAYING ENTIRE DOCUMENT PAGES.

CO-PROCESSOR CARTRIDGES AND DISK ADAPTERS PROVIDE COMMODORE 64, APPLE, CP/M, AND IBM-PC COMPATIBILITY.

WITH THE INTEGRAL CLOCK-CALENDAR AND MODEM, THE 64+ CAN TURN ITSELF ON, DIAL A BULLETIN BOARD UNTIL CONNECTED, LOG ON, DOWNLOAD DATA, LOG OFF, HANG UP, STORE TIME AND CHARGES (AS WELL AS DATA) TO DISK, PRINT THE DATA, AND TURN ITSELF OFF UNATTENDED!

MININO ETH



# EYBOARD ¥ †

GENERAL

5 LINES CHAPTER MARKER IN WINDOW. & CURSOR: FLIPS TO PREVIOUS OR NEXT WINDOW SECTION MOVES CURSOR TO BEGINNING OR END INWARD AREA MOVES ENTIRE CURRENT MINDOM SELECTED WINDOW TO FRONT. CAUSES WINDOW TO EXPAND TO 8 DOCUMENT. & LFT/RT CURSOR: MOVES CURSOR TO PREVIOUS IN MENU 8 MOVES WINDOW BORDERS SHIFT & CURSOR: MOVES CURSOR 20 CHARACTERS AT A TIME. CMD & CURSOR: MOVES COMMAND CURSOR MINDOW SELECT: PULLS S ALREADY IN FRONT, C SCREEN, OR RECEDE. MINDOW MOVE & CURSOR: M CURSOR DIRECTION. MINDOW FRAME & CURSOR: DOC & UP/DN CURSOR: (SCREEN) CHAP SCRN PROTECTIVE MEMBRANE PROTECTS FROM SPILLS.
PROGRAMMABLE AUDIO FEEDBACK AND REPEAT ATTRIBUTES. ERASES FROM CURSOR TO UPPER LEFT OF WINDOW,

IF NO FILE SPECIFIED, DOES A BACKUP OF FILE THAT KEYBOARD RESUME MORDS. A PROGRAM BREAK

EGLISH

MEMORY.

THE, THAT...IT: THE 24% MOST
THESE WORDS TAKE ONE BYTE IN

INS/DEL: SANE AS 64

3

CAN BE LABELED

F20: FUNCTION KEYS.

TAB, OR MRKR: WITHOUT CURSOR KEY PLACES CORRESPONDING MARKER AT CURSOR. (SHIFTED TO REMOVE CALCULATOR SECTION: TOGGLE EITHER ALGEBRAIC OR R
NODES. SHIFTED MODE ENABLES HEX VALUES OF KEY
TYPE IN FUNCTIONS SUCH AS LOG. DATE, RADIA
CALCULATIONS APPEAR AT CURSOR POSITION.
LPRT AND WPRT: PRINT CURRENT LINE OR MINDOW.
SST: SINGLE STEP EITHER MACHINE LANG. OR HIGH LEV
KEY PRESSED. TO PREVIOUS MOVES CURSOR TO PREVIOUS OR UP/DN CURSOR: TAB TO NEXT MARKER. CURSOR MOVES AND LFT/RT CURSOR: AND UP/DN CURSOR: SENTENCE. MARKERS. MRKR & MORD SENT CAT: CURPUT 12 11 MACROS, MASTER DISK CATALOG, ETC.
MINDOMS, MACROS, MASTER DISK CATALOG, ETC.
MACRO: INITIATES A MACRO. MACRO ALLOWS VITUALLY ANY
KEY SEQUENCE TO REPLACE ANY OTHER KEY SEQUENCE (OF
ANY LENGTH). MACRO CAN EXECUTE TO SPECIFIC CURSOR
POSITION, INTO MEMORY, OR IN IMMEDIATE MODE.
UNDO: REVERSES UP TO LAST 16 ACTIONS. ACTIONS WHICH WINDOWS: WINDOWS ARE REALLY MOVABLE OBJECT BLOCKS (OR SPRITES). MAY BE PROGRAMMED SO THAT TEXT IS CONTINUALLY ADJUSTED TO THE WIDTH OF THE WINDOW. TRAVEL FROM MINDOW TO MINDOW (AND BETWEEN PROGRAMS) "ARE CANNOT BE 'UNDONE' PRODUCE THE MARNING;

W NAME: CREATES UP TO 255 NAMED WINDOWS. CAUSES PREVIOUSLY NAMED WINDOW TO BECOME CURRENT WINDOW. WINDOW

INFORMATION) IS DISPLAYED ON

BE EXPANDED, 15 COLORS SPRITE-LINKING, MEMORY DISK & VES, LOCAL JOYSTICKS, CENTRONICS SE SE PASSMORD IS INPUT. COMMERCIAL SOFTWARE CAN FORCE PASSMORD TO BE COPIED ONTO SYSTEM DISK AND GENERATE BACKUPS THAT CAN ONLY BE RUN ON DNE COMPUTER. THIS SHOULD ALLOM SOFTWARE PRICES TO COME DOWN FURTHER. INTEGRATED SPRITES: 255 SPRITES. SPRITES MAY BE EXPANDED, ROTATED, & TILTED (ITALIC SPRITES). 15 COLORS (PLUS TRANSPARENT), 16 PRIORITIES, SPRITE-LINKING, AND VECTORED INTERRUPTS SUPPORTED. 6RAPHICS: 60 BY 160 CHARACTER MAXIMUM DISPLAY, 420 BY 960 BIT-MAPPED GRAPHICS IN UP TO 256 COLORS. SECURITY: LUG FOR SECURITY CHAIN. NEATHER-PROOF COVER. COMPUTER WILL NOT ACCEPT INPUT UNTIL OWNER'S USER-DESIGNATED PRICE: \$1495.00
HAIN CPU: 68000 RUNNING AT 7.5 MHz.
POWER: FOUR RECHARGEABLE C-CELLS. 5-HOUR BATTERY L.
CELLS RECHARGE DURING AC OPERATION. BUILT-IN SI
PROTECTION. DISK WILL NOT OPERATE IF POWER IS
LOW. NON-ESSENTIALS POWER-DOWN AFTER 5 SOUND MUSIC), EXTERNAL HI-FI OUTPUT, VOLUME CONTROL RAM: 256K STANDARD, EXPANDS TO 512K INTERNALLY.

RETAINED BY BATTERY EVEN WHEN POWER 'OFF'.

MANAGEMENT FIRMWARE INCLUDES RAM-DISK, D
PRINTER BUFFERS, AND VIRTUAL HEMORY.

SOFTWARE, 6 MULTIPLE LANGUAGES, INT
SOFTWARE, 6 MULTIPLE CHARACTER FONTS.

DISK: ONE 3.5" MICRO-FLOPPY. 800K FORMATTED. 9-PART NETWORKING, ETC. TWO GAME PORT LIGHT PEN, MOUSE. RS232C P PARALLEL PORT FOR PRINTER. COMPOSITE VIDEO, AND RF DISPLAY 3 64-TYPE SID CHIPS (FOR LIGHT PEN KEYBOARD SOUND: MEXT LEVEL FILE NEXT RADIAN-2 쯩 님 H 8

BELOW ARE THE FIVE RUNNERS-UP IN INFO-64'S CONTEST #1. EACH RUNNER-UP WILL RECEIVE A BRAND NEW SHINY ERG-BOARD- COMPLIMENTS OF INFO-64:

- Major Features:

  1) 98% copmpatable with C-64

  2) Compatable with 1541, 1702
  and Commodore printers.

  3) 128K RAM(16K non-volital)

  4) High speed 5.25% drive

  - High speed 5.25" drive
  - 40/80 column option 5)
  - Basic 2.0/5.0 option 6)
  - 7 3 640x400 hires. black and basic 5.0 white mode in basic
  - 8) Semi-portable design

Optional LCD display 320x200 pixels 40/80 columns collapses i into 5-1/4 disk drive-

Function keys, help & word processing keys

Mumeric E CFSF keys

-Computor & disk drive combined



## DONALD C. INIDS BUSTON, KASS

+++++++++++++++++++++++++++ PRICE: \$900 CPU: W65SC816 (16-BIT)

- # PORTABLE
- # COMPLETELY COMPATIBLE W/ 64
- # DETACHABLE KEYBOARD
- # 1 3.5" SONY MICRO-FLOPPY
- STANDARD (2ND OPTIONAL) INTERFACE FOR 1541 POVIDED

- BUILT-IN COLOR MONITOR
- BATTERY POWER / AC POWER
- DUAL SID CHIPS / STEREO PLUG-IN "PIANO" KEYBOARD
- # PLUG-IN RAM TO 384K
- # ROM-PAKS FOR COMAL. LOGO,
- PASCAL, PILOT, & COBOL. \$ 640 X 400 COLOR GRAPHICS
- # 80/40 COLUMN TOGGLE

- IMPROVED SINOH'S BASIC
   BUILT-IN SUPERBASE, EASY-SCRIPT, AND MULTIPLAN

## GIATUTO, LA

+++++++++++++++++++++++++++++ PRICE: \$699 CPU: 6800B (32-BIT)

- # PORTABLE
- # COMPLETELY COMPATIBLE W/ 64
- \* DETACHABLE KEYBOARD \* 12 SPECIAL FUNCTION KEYS
- \* NUMERIC KEYPAD
- # FAST DISK DRIVE-
- SECOND DRIVE OPTIONAL
- \* 256K RAM
- # 9 X 12 CHARACTER FONT
- # 640 X 400 GRAPHICS RES.
- \* COMPOSITE VIDEO, RGB, OR
- LCD DISPLAYS
- # IEEE 488 PORT
- \* RS-232 PORT
- # 3.5 BASIC
- # MS-DOS CAPABILITY
- \* BUILT-IN COBAL, PASCAL, FORTRAN, LOGO, & COMAL 2.0

### JOHN SCHILLING HOLLIS BENCH, FL

PRICE: \$999.95

W.D.C. CMOS 6502 PSEUDO 16-BIT CPU:

(16 MB ADDRESSABLE)

- # 64K RAM, EXPANDABLE TO 15MB # 64K ROM, EXPANDABLE TO 1MB # PORTABLE
- \* COMPLETELY COMPATIBLE W/ 64 \* DETACHABLE 'QWERTY' KEY-
- BOARD (DVORAK OPTION IN ROM, KEYCAPS OPTIONAL)
- # 640 X 200 GRAPHICS
- # 40, 80, 132 COLUMN TEXT # 15 COLORS X 8 LUMINANCES
- \$ 256K RAM
- # 64 ADDRESSABLE SPRITES # 3 SID CHIPS
- # RF, COMPOSITE VIDEO, RGB
- I IEEE 488 PORT
- \$ 2 RS-232 PORTS \$ 4 EXPANSION SLOTS
- # BUILT-IN COMAL-80 LANGUAGE

### Harritan Suand

+++++++++++++++++++++++++++++++++++ PRICE: \$495

TED II (16-BIT) CPU:

- # PORTABLE
- \$ COMPLETELY COMPATIBLE W/ 64
- \* 72-KEY KEYBOARD
- # 10 PROG. FUNCTION KEYS,
- ONE-TOUCH LOADING KEY, & RESET & HELP KEYS
- \$ 128K RAM
- # HIGH-SPEED DRIVE

- (DUAL DRIVE OPTIONAL) \$ 480 X 300 GRAPHICS RES. \$ 40 OR 80 X 25 CHARACTERS
- # 16 X 8 COLORS
- **# 16 MULTICOLOR SPRITES**
- # 4.0 SUPER-BASIC-(80 COMMANDS)
- # MS-DOS & CP/M ADAPTERS
- OPTIONAL
- \$ SID II SOUND CHIP-(SIX VOICES & HUMAN SPEECH) \* PLUG-IN PASCAL, FORTH, AND 'C' LANGUAGES
- # ONE YEAR WARRANTY



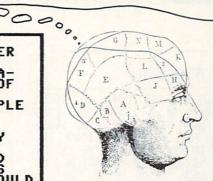


AND NOCH...

## DER CONTEST

## "THE ELECTRONIC LAVA-LITED

IF YOU ARE OLD ENOUGH TO REMEMBER
THE ED SULLIVAN SHOW, THEN YOU
MOST LIKELY REMEMBER WHAT A LAVALITE IS. (IF YOU FALL OUTSIDE OF
THIS GROUP, GO ASK YOUR FOLKS.)
THE LAVA-LITE USED TO AMUSE SIMPLE
FOLKS FOR HOURS AT A TIME WITH
ITS COLORFUL RANDOM FLOATING
ILLUMINATED GLOBULES. CERTAINLY
WITH THE AWESOME GRAPHICS POWER
OF THE C64 AT YOUR DISPOSAL, AND
ALL THE LEISURE TIME OF THE 80'S
TO BOOT, SOME OF OUR READERS SHOULD
BE ABLE TO CREATE A SUPERIOR
ELECTRONIC REPLACEMENT FOR THIS
ANCIENT CURIOSITY OF YESTER-YEAR!



START THINKING!

DON'T BE BASHFUL! SEND US <u>YOUR</u> CONTEST IDEA!

THE COVETED ...

ERG-BOARD

#### NEED: ME

ME ARE LOOKING FOR A SELF-RUNNING GRAPHICS PROGRAM WRITTEN IN BASIC OR GOVAL(!). IT SHOULD BE SOOTHING, UNPREDICTABLE, INTERESTING, AND UNIQUE - (NO RANDOMLY-LIT CHARACTER BLOCKS, PLEASE). OPTIONALLY, YOU MAY ENHANCE THE BASIC THEME WITH VARIOUS INITIALIZING INPUT OR WITH THE ABILITY TO CHANGE THE MOOD OF THE DISPLAY WHILE RUNNING BY TOUCHING VARIOUS KEYS. PROGRAM MUST BE LISTABLE, NO LONGER THAN 201 LINES OF CODE, AND SUBMITTED ON DISTINUM (NO TAPES PLEASE!). YOU MAY ALSO INCLUDE A WRITTEN EXPLANATION IF YOU FEEL YOUR CONCEPT IS ESPECIALLY CUNNING OR ESOTERIC. THE WINNING ENTRY WILL BE LISTED IN INFO-64. ENTRIES MUST NOT BE COPYRIGHTED AND WILL BECOME PUBLIC DOMAIN SO THAT ALL MAY ENJOY!! \*

SEND ENTRIES TO:

NFO-64 Ontest ONTEST #2 T.#2, BOX 198-E ΙĀ

ENTRY MATERIALS
BECOME THE PROPERTY
OF INFO PUBLICATIONS
AND CAN NOT BE
RETURNED.

CONTEST DEADLINE: DCT. 31, 1984



#### HOW TO USE THE PRODUCT ROUNDUP

PRODUCTS ARE ARRANGED BY CATEGORIES (SEE INDEX AT RIGHT). EACH PRODUCT TITLE IS ACCOMPANIED BY A 3-CHARACTER VENDOR CODE, A MEDIA ABREVIATION WHERE APPLICABLE (SEE LEGEND BELOW), PRICE, AND A RATING OF FROM ONE TO FIVE STARS (\$). IF WE DON'T HAVE ONE OF THESE INFORMATION ITEMS, THE LETTERS "NA" WILL APPEAR INSTEAD. IF YOU WANT MORE INFORMATION ABOUT A PARTICULAR PRODUCT AND YOUR LOCAL DEALER IS NOT ABLE TO HELP, USE THE 3-CHARACTER CODE TO LOCATE THE VENDOR IN THE VENDOR ROUNDUP (BEGINNING ON PAGE ).

LEGEND: (D)=DISK (T)=TAPE (R)=CARTRIDGE (D/T)=DISK OR TAPE AVAILABLE (T+D)=DISK VERSION INCLUDED ON TAPE (R&D)=USES BOTH ROM AND DISK

#### RATINGS:

#.....BOO, HISS, YUK, BLAH, SNORT, ARGH.

\*\*.....POOR: EITHER DOESN'T WORK RIGHT (SERIOUS BUGS), OR IS LACKING IN IMAGINATION, USEFULNESS, OR PERFORMANCE.

\*\*\*....JUST FINE: NO SERIOUS BUGS, PERFORMS
REASONABLY WELL - BUT NOTHING SPECIAL
(THIS IS SOMETIMES A PRODUCT WHICH HAS
BEEN DONE ENOUGH BY OTHERS, LIKE A
PLAIN VANILLA MAILING-LABEL PROGRAM, OR
SOME BLAST-'EM ARCADE GAMES)

\*\*\*....YERY GOOD: PROFESSIONAL, SOLID, CREATIVE, STANDS APART.

\*\*\*\*..UNUSUALLY OUTSTANDING!: A LEADER IN ITS CATEGORY.

(PLUS AND MINUS SIGNS INDICATE SLIGHTLY HIGHER AND LOWER JUDGEMENTS, RESPECTIVELY)

WE DON'T RECOMMEND BUYING ANYTHING RATED BELOW 3 STARS-THERE'S TOO MUCH GOOD STUFF OUT THERE TO SETTLE FOR LESS.

ONLY PRODUCTS ACTUALLY TESTED BY INFO-64 OR TRUSTED ASSOCIATES ARE RATED - OTHER PRODUCTS SHOW "NA" (NOT AVAILABLE) IN PLACE OF STARS.

#### \*NOTE: INFO-64 DOES NOT SELL ANY OF THESE PRODUCTS. PLEASE SEE YOUR DEALER OR CONTACT THE VENDOR IF YOU WANT TO BUY ANY OF THESE.

	6
==== BUS.PERSONAL SOFTWARE ==== BUSINESS ACCOUNTING	5
SPREADSHEET SOFTWARE. 3 SPREADSHEET SOFTWARE. 3 WORDPROCESSING. 3 SPELLING CHECKERS. 3 DATABASE MANAGEMENT. 4 MAILING LIST SOFTWARE. 4 GENERAL LIST & FILE MNGMNT. 4 ==== EDUCATION & THE ARTS ==== CLASSROOM ADMINISTRATION. 4	78901
PROGRAMMING INSTRUCTION	2233344
PLOTTING & PRINTER GRAPHICS	7 8 9 1
SAME COLLECTIONS	4 4 0 1 2
EXTENSIONS TO BASIC. 6. COMPILERS. 6. PROGRAMMING ENVIRONMENT. 6. BACK-UP AND COPY SOFTWARE. 6. MISC. UTILITIES 6. TELECOMPUTING. 6. BULLETIN BOARD SOFTWARE. 6.	333455
GENERAL INTERFACES	7 8 8 8
MASS STORAGE	00122344
PUBLICATIONS74	7

### PRODUCT NAME VENDOR CODE MEDIA PRICE RTG. TOTL. BUSINESS 3.6 PRODUCT FILES (SO YOU DON'T HAVE TO TYPE IN INFO ON STANDARD PRODUCTS EACH TIME YOU CUT AN INVOICE) AND MULTI-LEVEL PRICE AND TAX FILES, OPTIONAL DISCOUNTS, CUSTOMIZABLE COMMENTS ON STATEMENTS, USES ONE UNIVERSAL FORM FOR INVOICES, STATEMENTS, & PURCHASE ORDERS, AND MUCH MORE. WELL DOCUMENTED WITH MANY CONVENIENCE FEATURES. THE FOLLOWING MODULES FROM INFO DESIGNS CAN PASS AND SHARE DATA AND LINK TOGETHER THRU A MASTER MENU. ORIGINALLY SOLD AT \$200 PER MODULE, THE CURRENT PRICES ARE ONE OF THE MAJOR IMPROVEMENTS IN THIS LINE IN THE LAST YEAR! COMMODORE NOW OFFERS A VERSION OF THE INFO DESIGNS SERIES (IDC) LISTED BELOW. PRICED AT ABOUT \$50 PER MODULE. THE COMMODORE VERSIONS ARE ESSENTIALLY THE SAME PRODUCTS WITH SOME REDUCTIONS IN MAXIMUM CAPACITIES: GENERAL LEDGER IDC.....(D)......79.95..... INVENTORY PAYROLL GENERAL ( commodore ( commodore TOTL.LEDGER 3.6 TOT......(D).....NA.....NA.....NA CAN BE USED STAND ALONE. OR WITH TOTL BUSINESS (ABOVE). MAINTAINS 12 MONTHS OF BUSINESS DATA AND PRODUCES TRIAL BALANCES, BALANCE SHEETS, INCOME & EXPENSE, PROFIT & LOSS STATEMENT REPORTS. 1600 ACCOUNTING DES......(D)......395.00..... COMBINED 6/L, A/R, A/P: 2 DRIVES REQUIRED. INVENTORY PACKAGE MSP....(D).....99.95. FULL-FEATURED INVENTORY PACKAGE. PAYROLL SYSTEM GENERAL LEDGER

MSP.....(D)......99.95..... UP TO 75 ACCOUNTS.

AAR......(D)......69.95.....

....49.95.....

INVENTORY

GENERAL LEDGER

INSTA-LEDGER (NA)NA
DATABOOKS
G/L A/R A/P BILLING, INVOICING. SINGLE DRIVE SYSTEM.
ACCOUNTS RECEIVABLE/PAYABLE ECP(NA)21,95NA
THE ACCOUNTANT (G/L B/S P&L)
INVOICE EASE 64
SUPERBYTE BUSINESS PAK
INCLUDES: 6/L / INCOME STATEMENT / BALANCE SHEET. A/R. A/P, WORDPROCESSOR / SPREADSHEET / INVENTORY / CHECKBOOK
MAINTENANCE / MAILLIST / 6 UTILITIES
>> THE FOLLOWING ARE MODULES IN A SERIES WHICH ARE ALL: PASSWORD PROTECTED / MENU-DRIVEN / STAND-ALONE OR
INTEGRATABLE WITH THE OTHER MODULES / FLEXIBLE REPORTING: (* NOTE PRICE REDUCTIONS-)
GENERAL LEDGER THW(D)
CASH FLOW MANAGEMENT THW(D)
PAYROLL MANAGEMENT THW
ACCOUNTS PAYABLE AND CHECKS THW
SALES ANALYSIS MANAGEMENT
TNW(D)59.95NA INVENTORY MANAGEMENT
TMWNA
MANAGEMENT SYSTEM 64 ENT(D)69.95NA INTEGRATED BUSINESS PACKAGE: CALCULATES AND PRINTS
INVOICES, PACKING SLIPS, MAILING LABELS/ TRACKS INVENTORY/ GENERATES RELATED REPORTS.
BUSINESS PACK LOE(D)
SINGLE-DISK ACCOUNTING SYSTEM COVERS: RECEIVABLES, INVENTORY, SALES, INVOICING/ INCLUDES SPREADSHEET
ROUTINES. TRICOUNT.
TRI
SEPARATELY. FULL-FEATURED SMALL BUSINESS ACCOUNTING. BUSINESS WARE
SOU(D)??.??NA (SOUTHERN SOLUTIONS OFFERS A BROAD RANGE OF BUSINESS
ACCOUNTING MODULES FOR EVERYTHING FROM GENERAL LEDGER TO PAYROLL FUNCTIONS.)
INTEGRATED BUSINESS/HOME &
COMPLETE PERSONAL ACCOUNTANT
PGI(D/T)79.95/74.95*** INCLUDES ABOVE MODULES I THRU III: A SOLID SET OF PERSONAL FINANCE TOOLS/ INCLUDES A UNIQUE SELF-RUNNING
DEMONTRATION PROGRAM ON THE FLIP-SIDE OF THE DISKETTE WHICH MAKES FIRST-TIME FAIRLY PAINLESS (WE WOULD LIKE TO
SEE MORE OF THIS TYPE OF BUILT-IN TRAINING AID INCLUDED WITH 'SERIOUS' SOFTWARE.) SEE COMPLETE REVIEW IN ISSUE
12.)
===>> THE FOLLOWING 5 MODULES CAN BE USED STAND- ALONE OR LINKED IN VARIOUS COMBINATIONS.
FINANCE I P61(D/T)39.95/34.95***
[Ulasessass W/   / sass 37.73/34.73 # E E E

P6I.....(D/T).....39.95/34.95....

CHECKBOOK MAINTENANCE / CHART OF ACCOUNTS / CHECK SEARCH

/ CHECK WRITER

FINANCE II P6I......(D/T).....29.95/24.95.....\*\*\* NET WORTH/INCOME/EXPENSE STATEMENTS / DETAIL AND SUMMARY BUDGET ANALYSIS FINANCE III

PGI......(D/T).....29.95/24.95....\*\*
PAYMENTS CALENDER / APPOINTMENTS CALENDAR / MAILING LIST / COLOR GRAPH DESIGN PACKAGE

FINANCE IV P6I........(D/T)......29.95/24.95......NA

SPREADSHEET: COMPATIBLE WITH FINANCE I, II, & V. FINANCE V

P6I......(D/T)......59.95/54.95......NA
INCOME TAX PACKAGE: PRINTS FORMS, HANDLES MOST
SCHEDULES/ USES FINANCE I, II, & IV.



MAGIC DESK I

CBM......(R).......(\$0.00.........\*\*\*+

ICON-BASED 'SHELL' PACKAGE THAT WILL HELP THE USER
ACCESS AND TRAVEL BETWEEN APPLICATIONS IN A MORE
'FRIENDLY' WAY THAN IS NOW USUALLY THE CASE. MAGIC DESK
'FRIENDLY' WAY CHANGE AND FILING FUNCTIONS/ MORE FUNCTIONS ARE SCHEDULED TO COME LATER ON ADDITIONAL CARTRIDGES.





SMART ....(D)......79.95.....\*\*\*+ INCLUDES SIMPLIFIED WORDPROCESSING/ MONEY MANAGEMENT/ LOAN & SAVINGS ANALYSIS/MAIL LIST/ HOME INVENTORY/ TIME MGMNT CALENDAR & SCHEDULING/ ALL LOAD FROM ONE MENU TRIO

SFS.....(D)......69.95.....NA
WORDPROCESSOR, DATABASE MANAGER, & SPREADSHEET IN ONE PACKAGE.

BUDGETEER

ABA....(T/D)....19.95/22.95.....NA
PART BUDGET MANAGER, PART SPREADSHEET, PRODUCES BAR
CHARTS OF MONTHLY TOTALS AND AVERAGES. ALLOWS 999
COLUMNS BY 99 ROWS FOR WORKSHEET

ARK.....(NA).....(NA)......NA

MOUSE & ICON-BASED INTEGRATED SYSTEM: WORDPROCESSING,
SPREADSHEET, FILING/ 'ALL ON ONE SCREEN AT THE SAME
TIME'. WILL THIS BE THE 64-USER'S SCALED-DOWN ANSWER TO
LOTUS' 1-2-3??

SUPERBYTE BUSINESS PACK

**PROGRAMS** 

CCI MERCHANDISER

RETAILERS WITH ELECTRONIC CASH DRAWER STATION, AND A HOST OF USEFUL SOFTWARE ROUTINES INCLUDING SALES ANALYSIS, INVENTORY CONTROL, ACCOUNTING, MAILING & FILING, STICKER & LABEL MAKING, WORDPROCESSING, AND TELECOMMUNICATIONS.

THE MASTER KEY

TRI.....(D).....129.95.....NA
HARD TO CATEGORIZE THIS INTERESTING BUNDLE. INCLUDES:
FILING/ WORD PROCESSING/ HOME FINANCE/ ELECTRONIC PAINTBRUSH/ & 'TERRESTRIAL GAME'.



CERTIFIED PERSONAL ACCOUNTANT SND......(D).......99,95......\*\*\*\*+

THIS IS THE EASIEST TO USE, BEST DOCUMENTED, SENSIBLY
PUT TOGETHER PERSONAL FINANCE PACKAGE WE HAVE SEEN YET.
PREVIOUSLY AVAILABLE ONLY ON IBM, APPLE, & TI
PROFESSIONAL, THIS IS A QUALITY PACKAGE THAT GIVES YOU
A REAL SENSE OF CONFIDENCE AND GUIDES YOU SURE-HANDEDLY
THRU ALL PHASES OF SET-UP AND ROUTINE USE. EXTENSIVE
HELP SCREENS AND TUTORIAL A COMPATIBLE TAY PACKAGE HELP SCREENS AND TUTORIAL. A COMPATIBLE TAX PACKAGE IS

DUE OUT LATE THIS YEAR.
PERSONAL ACCOUNTANT SFS.....(D/T)....34.95.....\*\*\*+

DOUBLE ENTRY BOOKKEEPING/ MAINTAIN CHECKBOOK, CREDIT
CARDS, LOANS/ REPORTS INCLUDE: TRIAL BAL., PROFIT/LOSS,
EXPENSE VS. INCOME, ASSETS VS. LIABILITIES. AMORTIZATION
TABLES AND ADDRESS BOOK FUNCTIONS.

HOME ACCOUNTANT CON.....(D)......79.95.....\*\*+

THIS COULD BE AN EXCELLENT PACKAGE; UNFORTUNATELY, THE PRODUCT, IN ITS PRESENT CONDITION, CAN NOT BE RECOMMENDED. SLOW DISK-ACCESSING ROUTINES RESULT IN UNACCEPTABLY LONG DELAYS DURING ROUTINE PROCESSING. (SEE COMPLETE REVIEW IN ISSUE #2)

PERSONAL FINANCE ASSISTANT

RAI.....(NA).......59.95......NA

BUDGET AID

BUDGET AID .. (NA) .. MIQ......(NA)......69.95.....NA
MENU DRIVEN / CHART OF ACCOUNTS / USER-DEF CATEGORIES / MIQ..... CHECKBOOK W/RECONCILIATION / COLOR GRAPH ANALYSIS THE MONEY MANAGER

THN...(D/T)...24.95.

DETAILED BUDGET ANALYSIS WITH BAR CHART GRAPHING.

HOME FINANCE MANAGER

SNC...(D)...59.95.

BUDGETING / 3-ACCT CHECBOOK / DEDUCTION FLAGS / CHARTS & **GRAPHS** 

FAMILY FINANCES 

HOUSEHOLD FINANCE

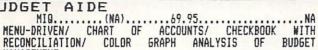
CRE...(D/T)....34.95/29.95.....NA
PERSONAL FINANCE FORECASTER
XAN...(NA)....(NA).....NA
THIS PACKAGE EMPHASIZES THE FUTURE BASED ON DATA FROM

THE PAST & PRESENT. GENERATES GRAPHS AND REPORTS FOR A WHAT-IF LOOK AT YOUR FUTURE FINANCES.

COMP-U-CHECK

INCLUDES SIMPLE WORDPROCESSING FEATURES.

## PERSONAL FINANCES (CONT'D)



MANAGEMENT.

THE FINANCIAL ASSISTANT

GAL.....(D).....49.95......NA
50 ACCOUNTS/ 100 CATEGORIES/ 3200 ENTRIES PER DISK/
SEARCH-SORT ON ANY FIELD/ REPORTS TO WIDE VARIETY OF PRINTERS.

BILLWRITER/SUMMARY

UHL.....(T).....29.95.....NA
HOME ACCOUNTING & CHECK-WRITING/ PRINTS CHECKS ON REGULAR PRINTER PAPER.

64-ACCOUNTING SYSTEM

FINANCE MANAGER

HES.....(D).....69.95.....NA
BUDGET MANAGEMENT: MULTIPLE CHECKING ACCOUNTS/ PRINTS
CHECKS/ KEEPS TAX RECORDS/ HELP SCREENS

FINANCIAL ACCOUNTING & PLANNING SYSTEM.

SMX.....(D)......39.95... HOT ACCOUNTS

CES.....(D)......64.95.....NA
BOOKKEEPING SYSTEM FOR SMALL BUS. AND HOME. TRACKS
INCOME, EXPENSE, CREDIT CARDS, IRA'S, DEDUCTIONS, ETC. PRINTS GRAPHS, FIGURES PERCENTAGES, ON-SCREEN PROMPTS.

## CHECKBOOK MANAGEMENT

A ALLEADA AND THURSDAY AND THE STATE OF THE
CHECKBOOK MANAGER
MSP(D)69.95NA VICHECK
UMI(T&D)29.95*** CHECKBOOK MANAGER WITH PRINTER OPTIONS
64 CHECKBOOK MANAGER
DES(D/T)40.00/35.00NA
INSTA-CHECK
CIM(NA)(NA)NA
64 CHECHBOOK MANAGER
DES(D/T)40.00/35.00NA PASSWORD PROTECTED / 400 CHECKS PER FILE / 200 DEPOSITS
/ 100 ACCOUNT CHARGES
CHECKBOOK ACCOUNTING
MIQ(NA)24.95NA
CHECKBOOK BALANCER
GAT(T)9.95NA
CHECK MANAGER
605
CHECKBOOK BALANCER
GTRNA

CHEC K HELPER MAG.....(D/T).....(NA)..... CHECKEASE

T&F......(D/T).....34.95/29/95.....NA

OVER 600 CHECKS / INTERFACES WITH COMMODORE'S 'PERSONAL
FINANCE' / RECONCILIATIONS / FORWARD & REVERSE REVIEW /
DEDUCTABLE FLAGENG / PRINT BY CATEGORY

MY ACCOUNTANT

RAM.....(D)....(NA).....NA
CHECKBOOK MANAGER WITH 36 CHECK CATEGORIES. 10 FOR
DEPOSITS. HOLDS 2000 CHECKS AND 475 DEPOSITS PER YR.
SEARCH, REPORT. RECONCILE.
YOUR PERSONAL ACCOUNTANT

TRI.....(D/T).....39.95.....NA
SUPPORTS ONLY 2 BANK ACCOUNTS AND NINETEEN EXPENSE CATEGORIES.

PRODUCT NAME VENDOR CODE

MEDIA PRICE RTG.

FINANCIAL COOKBOOK

ELE. (D). 50.00. \*\*\*\*

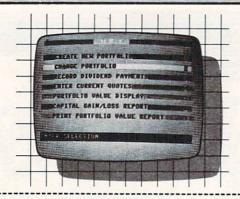
ONE OF THE HANDIEST LITTLE PACKAGES FOR THE AVERAGE PERSON TRYING TO FIGURE OUT WHETHER TO BUY OR RENT, SAVE OR INVEST, SAVE OR SPEND, ETC. I USED THIS FREQUENTLY DURING THE RECENT SALE AND PURCHASE OF DUR HOME. AND WILL USE IT BEFORE I BUY A CAR OR OPEN A MONEY MARKET ACCOUNT!



#### FINANCIAL COOKBOOK

PORTFOLIO MANAGER
BAB(D/T)29.95***+ MENU-DRIVEN INVESTMENT AID TRACKS UP TO 70 STOCKS WITH
UP TO 300 TRANSACTIONS PER PORTFOLIO. UPON ENTERING CURRENT QUOTES, YOU MAY QUICKLY ASSESS YOU PRESENT
BALUE, % GAIN/LOSS, ACTUAL GAIN/LOSS, AVG. PURCHASE
PRICE, AND TOTALS. REPORTS TO SCREEN OR PRINTER.
CRE(D/T)19.95/14.95NA
LOAN CALC FAN(D/T)11.95/9.95NA
AMORTIZATION PROGRAM INP(D)30.00NA
THE INVESTORS PAK
USE(D)39.95NA 25 BUSINESS & INVESTMENT PROGRAMS IN REAL ESTATE.
MORTGAGES, BONDS, LOANS, SHELTERS ETC.
HOME MATH ANALYZER UHL(D)19.95NA
ANALYZES HOME LOANS, SAVINGS, AND SIMPLE STATISTICAL DATA.
HOW TO MAKE GOOD INVESTMENTS
TWZ(D)54.95NA COMBINED 100 PAGE TEXT & PROGRAM DISKETTE DESIGNED TO
INSTRUCT THE BEGINNING OR OCCASIONAL INVESTOR.
BEC LAW(D/T)89.95/79.95NA
DESIGNED TO HELP THE ENTREPRENEUR FIND BREAK-EVEN POINT
FOR NEW PRODUCT. COMPUTES TOTAL FIXED COSTS, VARIABLE COSTS, & SALES REVENUE AT BREAK-EVEN POINT.
INVESTMENT PORTFOLIO MANAGER B&B(D)14.95NA
TRACKS STOCKS AND STOCK OPTIONS/ REPORTS ON 9 INVESTMENT
CATEGORIES, STOCK PORTFOLIO MANAGER
BAB(D/T)34.95/29.95NA
STOCK HELPER

MAG......NA



PORTFOLIO MANAGER

WALLSTREET MICROSCOPE

DEE.....(D).....(NA).... DETAILED PRICE AND FINANCIAL ANALYSIS OF COMMON STOCKS/ EACH STOCK RATED AGAINST 10 CRITERIA/ AVAILABLE WITH 10 YR. HISTORY OF FORTUNE 500'S / OTHERS SOON.

TAS-64

VOLUME INDICATORS. COMPARATIVE CHARTS FOR 2 DIFFERENT ISSUES. SUPPORTS CBM, EPSON, GEMINI, PRINTERS.

SUPERTAX (I, II, & III)

RDC.....(D)......\$77/89/99.......NA

I: GENERATES SUMMARIES OF PAGE 1 & 3 AND SCHED. A. PRINTS
OVERALL SUMMARY OF RETURN SHOWING ADJUSTED GROSS INCOME.
ITEMIZED DEDUCTIONS. TAXABLE INCOME. REG. TAX, INCOME
AVERAGING TAX, MIN. TAX, & PAYMENT OR REFUND DUE. ALSO
COMPUTES: MOVING EXPENSE DEDUCTION, INVESTMENT CREDIT,
TAXABLE CAPITAL GAINS, POLITICAL & CHILDCARE CREDITS,
MEDICAL LIMITATIONS. & MORE. (SUPERTAX I IS ALSO
AVAILABLE ON CASSETTE)

II: ALL FEATURES OF ABOVE BUT PRINTS ACTUAL INCOME TAY

II: ALL FEATURES OF ABOVE BUT PRINTS ACTUAL INCOME TAX RETURN (PAGE 1, 2, SCHEDS. A, B, & G, FORM 3468) ON GOVERNMENT FORMS (WITH FRICTION-FEED PRINTERS) OR BLANK PAPER FOR USE WITH TRANSPARENCIES.

III; ALL FEATURES OF ABOVE TWO MODULES PLUS CALCULATES AND PRINTS SCHED. C ALONG WITH A STAND-ALONE DEPRECIATION PROGRAM.

W. INCOME AVERAGING. HELP SCREENS.

FINANCE V

PRINTS FORMS/ MOST SCHEDULES/ USES DATA FROM PROGRAMMER'S INSTITUTE'S (PGI) HOME FINANCE PROGRAMS.

TAX FILE

S&G......(D/T).....19.95/14.95.....NA
ORGANIZES TAX DATA FROM 23 CATEGORIES/ DOES NOT PRINT

DATA, LINE BY LINE PRINTOUT OF TAX FORM DATA. & RUNNING TOTAL OF REFUND OR TAX DUE.

#### SWIFTAX

THW......(D)......49.95.....NA
MENU DRIVEN/ GUIDES USER THRU PREPARATION OF TAX FORMS/
CHECKS ALTERNATIVES INCLUDING INCOME AVG. AND FIGURES
LOWEST TAX TO PAY/ CAN PRINT DIRECTLY ON IRS SCHEDULES AND GENERATE ITEMIZED ADDITIONAL STATEMENTS/ ALSO CALCULATES & PRINTS AMORTIZATION SCHEDULES. YEARLY SOFTWARE UPDATES AVAIL. AT SMALL CHARGE.

TAXWARE

SFP......(D)......44.95.......NA
STORES ALL TAX INFO ON ELECTRONIC VERSIONS OF MOST TAX
FORM/ CALCULATES TAX AT ANY TIME/ FACILITATES EASY
'WHAT-IF' TYPE ANALYSIS/ HANDLES ITEMIZED DEDUCTIONS,
INCOME AVG., DIVIDENDS, STOCKS, SELF-EMP., RENTS,
ROYALTIES, MANY OTHERS/ M.L. & COMPILED BASIC

TAX-MAN

SAU......(D/T).....39.95.....NA
COMPUTES TAX TABLE / SCHEDS X,Y,Z / INCOME AVERAGING / W/PRINTER FORMS

PRODUCT NAME VENDOR CODE

MEDIA PRICE

ESI TIME PLANNER

CRUSS-REFERENCING/ PASSWDRD-PROTECTION/ HARD-COPY REPORTS/ UP TO 8000 EVENTS PER DISK/ SCHEDULE THRU THE YEAR 2000/ UNLIMITED PERSONS AND COMMENTS PER DAY.

TOTL.TIME 2.6
TOT.....(T/D).....35.00/39.00.....\*\*\*+
USEFUL FOR SCHEDULING AND MANAGING PROJECTS

RESEARCH ASST.

TOT......(T/D).....35.00/39......\*\*\*+
UNIQUE CROSS-REF. TOOL FOR BIBLIOGRAPHIES ETC.
BIBLIOGRAPHER

CROSS-REFERENCING PROGRAM

DATE DUE

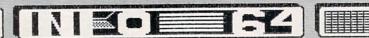
MMS.....(D).....39.50.....NA
LIBRARY UTILITIES TO MANAGE OVERDUES ETC. PRODUCES
HARDCOPY / SORTS & SEARCHES
MASTER LIBRARY PROGRAM
MMS.....(D)....39.50....NA

MWS.....(D)....39.50.....NA
INTERESTING PROGRAM FOR MANAGING LARGE COLLECTIONS OF
COMPUTER DISKETTES. CATALOGS OVER 8000 TITLES / M.L.
SORTING / SEARCHES AND FLAGS DUPLICATE TITLES / MORE

CCI MERCHANDISER

CCI....(D)....599.00....NA
POINT OF SALE SYSTEM. TRANSACTION DISKETTE / INVENTORY
DISKETTE. INTEGRATED COMPUTER- CONTROLLED CASH DRAWER AVAILABLE FOR AN ADDITIONAL \$374.00

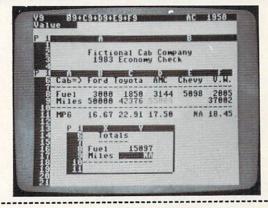




7	
[MISC. BUS./PERSONAL (CONT'D) 🕀]	and the state of t
PRODUCT NAME VENDOR CODE MEDIA PRICE RTG.	
BARTENDER'S FRIEND RLR(T)	
RENTAL PROPERTY MANAGEMENT MSP(D)(NA)NA BLACKJACK TEACHER	
SOT(D/T)49.95NA FOR THE SERIOUS BLACKJACK STUDENT: SIMULATES CASINO PLAY IN REAL-TIME WITH COMPUTER CONTROLLED PLAYERS/ TEACHES	
SEVEN DIFFERENT STRATEGIES OF VARYING COMPLEXITY/ MONITORS YOUR PERFORMANCE AND CORRECTS YOUR BAD	
RENTAL MANAGER FAB(D/T)27.95/24.95NA	
GENERAL RENTAL RECORD KEEPING WITH YEARLY/MONTHLY COLOR GRAPHING. TRACKS UNIT #'S, RATES, OCCUPANT, & DATES IN USE/AVAILABLE.  FAB BUSINESS	
FAB(D)37.95NA PROVIDES MAIL-ORDER OR SMALL BUSINESS WITH: INVOICES/	
PACKING LISTS/ LABELS. SUPPORTS CHARGE-CARD DATA AND FEATURES AN INVENTORY DATABASE. PRINTOUTS TO PLAIN PAPER OR SELECTED FORMS (ON 1525, EPSON, GEMINI & SIMILAR PRINTERS).	-
PM+ LAN(D)129.95NA COMPUTES CRITICAL PATH AND/OR SCHEDULE FOR PROJECTS.	
REQUIRES NO EXPERIENCE WITH CRITICAL PATH TECHNIQUES. MANAGES 5 LEVELS OF WAGE-RATES, THREE TYPES OF MATERIAL. CAPITAL EQUIPMENT COSTS, AND MISC. EXPENSES FOR EACH PROJECT. EVALUATES ACTUAL VS. ESTIMATED COSTS.	
TIMESTAR F/2(D)24.95NA 15 SEPARATE ON-SCREEN TIMERS WITH AUDIO ALARMS CAN TIME	
FROM 1 SEC. TO 99 MIN. 59 SEC. VARIABLE WARNING PERIODS MAY BE SET FROM 5 TO 50 SECONDS. TIMERS MAY BE LINKED SEQUENTIALLY OR RUN SIMULTANEOUSLY.  DARKSTAR	
F/2(T)74.95NA PHOTOGRAPHER'S AID: PROVIDES EXPOSURE, PROCESSING, AND	
COLOR CORRECTION DATA BASED ON PRINT DENSITY, MAGNIFICATION, LENS OPENING, PAPER TYPE, EMULSION, CONTRAST GRADE, FILTERS.	
TENANT FILE FAB(D/T)17.95/14.95NA MANAGE TENANT DATA FILES / OCCUPANCY AND RATE	
SPREADSHEETS. ENERGY MASTER	
FAB(D/T)27.95/24.95NA 'AN EXTENSIVE UTILITY CONSUMPTION DATA PROCESSING PROGRAM FOR DISPLAY, STORAGE, AND PRINTING WITH METER	
READING INPUTS.' DISCIALENDER SUD(D)49.95NA	
TIME MANAGEMENT: 12 MONTHS OF SCHEDULING AND APPOINTMENTS PER DISK.  MULTI-LEVEL MARKETING MNGR.	
CDC(?)(NA)NA INVENTORY SUD(D)79.95NA	
1200 RECORDS PER DISK/ BACKORDERS/ 3-LEVEL PRICING/ PRINTED REPORTS.	
RESTAURANT MANAGER SUD(D)79.95NA POINT OF SALES RESTAURANT SYSTEM: HANDLES 60 TABLES/ 250	
MENU ITEMS/ CREDIT CARDS & TIPS/ PRODUCES KITCHEN & SERVER REPORTS. ESTATE ANALYSIS	
(ESTATE PLANNING) SMX(D)24.95NA	

COMPUTA-LAW  LEG(D/T)24.95/14.95NA  15 COMMON LEGAL AGREEMENTS: 'JUST ANSWER THE QUESTIONS AND YOUR COMPUTER & PRINTER DOES THE REST'. INCLUDES WILL, POWER OF ATTORNEY, REAL ESTATE AGREEMENT, PROMISSORY NOTE, SEPARATION AGREEMENT, CONSTRUCTION CONTRACT, COMPUTER SOFTWARE CONTRACT & MORE! SOUNDS LIKE A NEAT IDEA!  REAL ESTATE ANALYSIS
(PROPERTY)
SMX(D)24.95NA
SIM(NA)19.95NA
APPOINTMENTS
SIM(NA)24.95NA
TASK ORGANIZER SIN(NA)24.95NA
PRO SPORTS STATS (FOOTBALL)
FCC
AWESOME SOUNDING DATA BASE ON DISK WITH EVERY
CONCEIVABLE STATISTIC FOR NFL AND USFL GAMES SINCE 1970.
IMPLIES YOU WILL BE ABLE TO PICK WINNERS MORE OFTEN BY
CONSULTING YOUR COMPUTER BEFORE A GAME. (WEEKLY UPDATES ARE INCLUDED FOR \$15 PER MONTH.) IF YOU LIKE THIS
PACKAGE. THEY HAVE SIMILAR SYSTEMS FOR BASEBALL, HOCKEY,
AND BASKETBALL.
-

## SPREADSHEET SOFTWARE



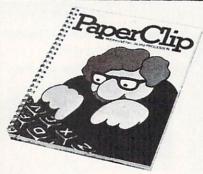
CALC RESULT ADVANCED

TO ALLOW COMPLEX OPERATIONS IN A SPREADSHEET FORMAT. JANECALC

ARK.....(NA).....NA.....NA SPREADSHEET PART OF 'JANE'. A MOUSE-BASED INTEGRATED SOFTWARE BUNDLE. BUSICALC 2

SEW.....(NA)......99.00.....NA ESP>CALC

NLI......... (D/T).......47.50/43.50.......NA ULTRAPLAN DAS.....(D)....NA....COMBINED SPREADSHEET & GRAPHICS UTILITIES.



PAPERCLIP

BAT.....(D).....89.95.....\*\*\*\*
WITH ITS MANY RECENT ENHANCEMENTS. THIS HAS BECOME OUR
FIRST 5-STAR WORDPROCESSOR. CAN BE USED WITH 80-COLUMN
HARDWARE / HAS SOFTWARE 80-COL. MODE / HORIZONTAL SCROLLING IN 40-COL. MODE / EXTENSIVE SEARCH & REPLACE VARIATIONS / IT WAS A REAL JOY EDITING ISSUE #4 WITH PAPERCLIP.

PAPERCLIP WITH SPELLPACK BAT.....(D).....119.95....\*\*\*\*
WORDPRO 3 PLUS/64
(INCLUDES SPELLRIGHT PLUS)

CAPABILITY, SPELLRIGHT (FORMERLY 'SPELLMASTER') IS AN 18,000-WORD SPELLING-CHECKER WITH ROOM FOR 1500 ADDITIONAL USER-ENTERED WORDS.)

OMNIWRITER (WITH OMNISPELL)

HES......(D).......\*\*\*

ON-SCREEN FORMATTING, INTERFACING WITH MULTIPLAN, AND INTEGRAL 30,000 WORD SPELLING CHECKER HIGHLIGHT THE MANY FEATURES OF THIS NEW ENTRY.

SCRIPT 64

RTC.....(D).....105.00.....\*\*\*

FULL-FEATURED WITH SEARCH & REPLACE, NUMERICS, SCREEN
FORMATTING, AND DICTIONARY SOFTWARE BUILT IN (YOU MUST
BUILD THE VOCABULARY YOURSELF). BUILT-IN 80-COLUMN
SOFTWARE. NOW INCLUDES DATABASE MANAGER ('SCRATCH PAD')

PRODUCT NAME VENDOR CODE

MEDIA

PRICE

RTG.





EASY SCRIPT

CBM.....(D).....(50.00.....\*\*\*\*

QUALITY AT A LOW PRICE. RANGE OF CAPABILITIES SIMILAR
TO WORDPRO 3 PLUS- FEATURES ON-SCREEN FORMATTING AND

HORIZONTAL SCROLLING. (DEVELOPED BY PRECISION SOFTWARE ( TD.)

WORDMANAGER

EXPANSION CARTRIDGE. FEATURES: BO COLUMNS (NATURALLY) / ON-SCREEN FORMATTING / KEYBOARD 'FEATURE STRIP' / DISK & TAPE STORAGE / MAIL-MERGE CIRCASCRIPT

CIR......(D).......39.95......\*\*\*\*

COPYABLE (FOR PERSONAL BACKUPS), M.L. MORDPROCESSOR IS
FAST WITH MANY FEATURES: WE LIKE THE ON-SCREEN, ONE-LINE
PROMPTS WHICH ACCOMPANY MOST OPERATIONS. THESE. ALONG
WITH FULL-PAGE HELP SCREENS, VIRTUALLY ELIMINATE THE
NEED TO REFER TO THE MANUAL AFTER THE FIRST READ-THRU.
THE GLOBAL SEARCH & REPLACE IS ONE OF THE FASTEST.
SUPPORTS THE USUAL ARRAY OF EDIT & FORMAT CONTROLS ALONG
WITH FMREDDED PRINTER CONTROLS. THE PRINTER INTERFACING WITH EMBEDDED PRINTER CONTROLS. THE PRINTER INTERFACING SECTION IS TOO TECHNICAL FOR MOST USERS. CIRCADIAN'S POLICY (WHICH WE APPLAUD) IS TO PROVIDE ANY AND ALL SOFTWARE UPGRADES AT NO COST TO THEIR CUSTOMERS.

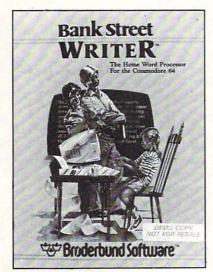
TOTL. TEXT 2.6 TOT....(D/T).....44.00/40.00....\*\*\*+
WRITTEN SKILLFULLY IN BASIC WITH MACH. LANG. SUBROUTINES
FOR INCREASED SPEED/ FEATURES INCLUDE MERGING OF LABELS CREATED WITH TOTL.LABEL 2.6/ MENU-DRIVEN/ NO SEARCH & REPLACE.

LIST PROGRAM SUITABLE FOR LIGHT-WEIGHT LETTER WRITING AND MAILINGS. ALSO INCLUDED ARE DOS 5.1 AND A NICE PROGRAM THAT WILL ADD A 'SMART' DIRECTORY MENU TO ANY OF YOUR DISKETTES.

SIE......(D)......49.95.......\*\*\*
MENU-DRIVEN WORDPROCESSOR FEATURES ICON FUNCTION-SELECTION AND PICTORIAL VIEW OF DOCUMENT LAYOUT.
INCLUDES AUDIOTAPE-BASED TUTORIAL AND DETAILED 30-PAGE
MANUAL. (IN SPITE OF THE OBVIOUS THOUGHT, LABOR, AND
CONVINCING MARKETING BEHIND THIS PRODUCT, THIS SYSTEM IS
VERY SLOW AND AWKWARD TO USE. IT LOOKS PRETTY IN THE
STORE, AND IS FUN FOR ABOUT 5 MINUTES, BUT WRITING MORE
THAN A MEMO WITH HOMEWORD WILL WIPE THE SMILE RIGHT OFF THAN A MEMO WITH HOMEWORD WILL WIPE THE SMILE RIGHT OFF YOUR FACE.)

HESWRITER 64

## WORDPROCESSING (CONT'D)



BANK STREET WRITER
BRO(D)69.95NA GENERALLY WELL-REGARDED WORDPROCESSOR ESPECIALLY SUITED
TO OCCASIONAL USERS.
MIRAGE WORDPROCESSOR
-PROFESSIONAL VERSION
MIRNA
FULL-FEATURED: LINKS WITH THEIR DATABASE MANAGER, & NOW
INCLUDES 30,0000 WORD SPELLING CHECKER. INTEGRAL 80
COLUMN SOFTWARE, MIRAGE WORDPROCESSOR
-PERSONAL VERSION
MIR(D)39.95NA
WRITE NOW
CAR(R)49.95NA
FULL-FEATURED WITH GLOBAL SEARCH & REPLACE / ARABIC OR
ROMAN PAGE NUMBERING / AUDIO CASSETTE INSTRUCTIONS WITH MANUAL / UP & DOWN SCROLLING / LINKS WITH 'MAIL NOW' /
SAVES TO TAPE OR DISK.
COPY-WRITER
CGRNA
FEATURES INCLUDE DOUBLE COLUMNS & SHORTHAND.
WORDPRO 64
PRL(D)49.95NA A PRELIMINARY COPY OF THIS LONG-AWAITED PRODUCT FINALLY
CAME FOR EVALUATION- UNFORTUNATELY THE PRELIMINARY
DOCUMENTATION IS NOT SUFFICIENT FOR A REASONABLE REVIEW.
OUR APPOLOGIES TO ANYONE WHO HAS WAITED 6 MO.S TO BUY A
WORDPROCESSOR BASED ON OUR ANTICIPATORY ENTHUSIASM FOR
THIS PRODUCT. WHILE THE DOCUMENTATION WE DID GET
SUGGESTS A VERY POWERFUL WORDPROCESSOR FOR THE MONEY (IT MAY EVEN BE THE BEST). WE ARE HIGHLY DISMAYED AT
PRO-LINE'S ENDLESS DELAY IN BRINGING THIS PRODUCT TO
MADET HULL TANTALIZING CHEDVONE HITH MONTHLY AND CON

PRO-LINE'S ENDLESS DELAY IN BRINGING THIS PRODUCT TO MARKET WHILE TANTALIZING EVERYONE WITH MONTHLY ADS FOR THE LAST 6 TO 9 MONTHS. CLAIMS ALL ORIGINAL WORDPRO FEATURES PLUS: 100% PROPORTIONAL SPACING, 40 TO 136 COLUMNS OF SCREEN DISPLAY (NO, YOU CAN'T READ THEM, BUT YOU CAN SEE WHAT YOUR PAGE WILL LOOK LIKE), COLUMNIZATION (MULTIPLE COLUMN, LIKE THIS MAGAZINE, PRINTED IN ONE PASS), AND 'OOPS' BUFFER FOR RECOVERY OF ACCIDENTAL DELETIONS. INTERFACES WITH PRO-LINE'S 25,000-WORD SPELLING CHECKER (SEE BELOW). ONE OTHER FEATURE (AND THE POSSIBLE REASON FOR MUCH OF THE DELAY) IS A SET OF COMMANDS WHICH ARE RUMORED TO ALLOW MERGING GRAPHICS FROM OTHER PACKAGES INTO TEXT DOCUMENTS.

WRITER'S ASSISTANT
RCC....(NA)....125.00.....NA

JANEWRITE  ARK
SPELLING CHECKERS J.
SPELLPACK  BAT(D)

SPELLPACK
BAT
USE WITH 'PAPERCLIP' TO CHECK DOCUMENTS AGAINST 20,000 WORD DICTIONARY IN UNDER 4 MINUTES/ ADD 5000 ADDITIONAL
WORDS OF YOUR OWN.
SPELLRIGHT PLUS
(FORMERLY SPELLMASTER)
PRO****
INCLUDED NOW WITH WORDPRO III PLUS/64, MAY ALSO BE PURCHASED SEPARATELY. (SEE WORDPRO III ABOVE FOR
DESCRIPTION.)
EASYSPELL 64
CBM(D)(25.00****
20,000-WORD DICTIONARY & SPELLING CHECKER/ WORKS WITH
EASYSCRIPT 64. TOTL.SPELLER 3.6
TOT(D)35.00NA
CHECKS SPELLING OF DOCUMENTS CREATED WITH TOTL.TEXT 2.6/
COMPILED BASIC/ OPERATES UNATTENDED/ 10,000-WORD STARTER
DICTIONARY IS EXPANDABLE TO 24,000 WORDS BY USER/
SUPPORTS MULTIPLE DRIVES & 80-COLUMN HARDWARE.
PRE(NA)(NA)NA
SPELLPRO 64
PRL(D)49.95NA
25,000-WORD CAPACITY DICTIONARY BY JIM BUTTERFIELD DESIGNED TO WORK WITH THE WORDPRO LINE OF WORDPROCESSORS
OR PROGRAMS USING SIMILAR FILE FORMAT.
SPELL WIZARD
DAS(D)(NA)NA
33,000-WORD DICTIONARY/ WORKS WITH 'LETTER WIZARD'
ABOVE.

### MINI JINI JIN....(R)......89.95.....\*\*\* ENTRY LEVEL DBMS ON CARTRIDGE/ 500 RECORDS PER DISKETTE / SINGLE DEPTH SEARCH AND SORT / AVAILABLE IN ENGLISH, DATABASE MANAGEMENT SPANISH, AND FRENCH. PRACTIFILE PRODUCT NAME VENDOR CODE MEDIA PRICE RT6. CSA......(D)......55.00......\*\* WE LIKE MANY THINGS ABOUT THIS PACKAGE INCLUDING: THE FLOATING FIELD STRUCTURE/ EASY CONFIGURATION TO MOST SUPERBASE 64 EQUIPMENT/ FLEXIBLE SELECTION & REPORT OPTIONS/ RUN-TIME ADDED FIELDS/ CALCULATED FIELDS & COLUMNS/ OUTPUT TO MANY POPULAR WORDPROCESSORS, ETC. (WE DON'T LIKE THE CONSTANT DISKETTE SWAPPING REQUIRED TO USE MOST ISSUE #3) THE CONSULTANT (FORMERLY 'DELPHI'S ORACLE') FUNCTIONS). THE REASON FOR THE DOWN-GRADED RATING IS THAT THERE SEEMS TO BE A RELIABLILITY PROBLEM WHICH WE FIRST BAT......(D).....99.95......\*\*\* 9 SCREENS PER RECORD / FLEXIBLE REPORTS / PASSWORD PROTECTION. THIS IS A QUALITY PRODUCT OVERALL, THO WE FOUND SOME PROBLEMS WITH INITIAL SCREEN DESIGN, SCREEN AESTHETICS, AND LACK OF FLEXIBILITY IN MAILING LABEL ATTRIBUTED TO OUR EQUIPMENT, BUT WHICH NOW APPEARS TO BE SOMEWHERE IN THE CODE. WHATEVER IT IS, IT CAUSES DATA DISKS TO OCCASIONALLY GO BELLY-UP FOR NO APPARENT REASON. IF YOU ALREADY HAVE THIS PRODUCT, WE RECOMMEND MAKING EXTRA-FREQUENT BACKUPS. The Consultant POWERFILE CIS......(D).....130.00.....NA MENU DRIVEN / APPLICATION TEMPLATES INCLUDED / SORT 5 DEEP ON ANY FIELD / CREATES SEQUENTIAL FILES FOR WORDPROCESSORS ASERT GTC.....(D)....(NA)....NA MENU-DRIVEN WITH SAMPLE RECORDS INCLUDED/ 180 SEARCH WORDS / BUILT-IN STATISTICAL CAPABILITIES / SORT ON ANY SOLIDEX FIELD / COMPILED BASIC WITH ML SORT ROUTINES SOL......(D)......99.95......\*\*\* REVOLUTIONARY DISK-ACCESS TECHNIQUES INCREASE THE SPEED OF 1541 DISK OPERATIONS BY AS MUCH AS 20 TIMES!/ MANAGE UP TO 625 'CARDS' PER DISKETTED CONTINUED FAST SEARCHES INSTA-FILE CIM.....(NA).....(NA).....NA CREATE-A-BASE COC....(NA).....39.95.....NA COMPILED BASIC / 8 DEEP SORTS / MENU-DRIVEN WITH SOPHISTICATED CONDITIONALS. THO WELL DOCUMENTED. THIS PACKAGE TENDS TO BE OVERWHELMING (DUE PARTLY TO THE EXTENSIVE OPTIONS, BUT ALSO TO SOLIDUS' UNIQUE STYLE OF DATALOG MWS.....(D).....39.50... DATABASE MANAGER- INTERFACES TO MOST WORDPROCESSORS STRUCTURING AND WRITING) / DOES NOT GENERATE OUTPUT FOR WORDPROCESSORS. MIRAGE DATABASE MANAGER SWC.....(D).....59.95....NA 19 FIELDS / SEARCH, SORT, PRINT REPORTS AND LABELS / INTFCS TO WORDPRO ETC. YOUR FILING SYSTEM MTS.....(T&D).....49.95.....NA FILING ASSISTANT DREAM-DB CAN.....(D)......99.95.......NA 'HIGH-LEVEL RELATIONAL DATA BASE MANAGEMENT SYSTEM...ENGLISH-LIKE COMMAND LANGUAGE...GENERATE ALMOST ANY IMAGINABLE...APPLICATION.' INCLUDES: DATA RELATION SENERATOR/ REPORT GENERATOR/ INTERACTIVE COMMAND TATASPORTERS CONSERVED TO A MENUL SENERATOR/ REPORTERS TO A MENUL SENERATOR OF THE PROPERTY OF TH THE ORIGINAL PACKAGE). GOOD DOCUMENTATION. WITH HANDS--ON TURORIALS. M'FILE INTERPRETER/ SCREEN GENERATOR/ MENU GENERATOR/ PROGRAM DEE....(D)....109.95.....\*\*\* MENU-DRIVEN / CALCULATED FIELDS / SORT ON ANY FIELD / FAST KEY SEARCH / CREATE SEQUENTIAL FILES FOR WORDPROCESSORS / BUILT-IN BACKUP ROUTINE / DOES NOT EDITOR AND COMPILER. \*(MUST BE USED WITH COMPANION PRODUCT, 'DISK ACCESS MANAGER' (D.A.M.) - SEE PROGRAMMING SECTION.) DREAM-DB ALLOW RE-STRUCTURING OF FILES. APPLICATION CASEBOOK THE MANAGER CAN....(D)......99.95......NA TEN READY-TO-RUN APPLICATIONS FOR DREAM-DB (ABOVE): APPOINTMENT SCHEDULING/ CHECKBOOK BALANCING/ TELEPHONE DIRECTORY/ MAILING LIST/ BUDGET MANAGEMENT/ AR/ AP/ CHECK WRITER/ INVENTORY/ ORDER ENTRY. CAN BE USED AS-IS OR MODIFIED BY USER. DATABASE 64 MEL......(D)......39.95.....NA DDB-ONE

MSP.....(D).....79.95......\*\*\*
SORTS 2-DEEP / SEARCHES 3-DEEP / 18 FIELDS PER RECORD /

24 CHAR, PER FIELD / MENU-DRIVEN

UTIL.

DATA MANAGER 2

TMW......(D)......49.95.....NA
INTERFACES WITH TIMEWORKS' 'WORD WRITER' FOR FORM
LETTERS, ETC. / PASSWORD PROTECTION / RESIDENT BACKUP

### VENDOR CODE MEDIA PRICE RTG. TOTL.LABEL 2.6 TOT.....(D/T).....24.00/20.00....\*\*\* MACH.LANG. SUBROUTINES SPEED CRITICAL OPERATIONS. COMMENT LINES / SORTING / BROWSE / MERGES WITH TOTL.TEXT 2.6 MAIL NOW MAILING LIST MSP.....(D).....54.95..... PRINTS 4-UP / 1200 ENTRIES PER DISK MAX COMMODORE 64 MAILLIST RAK......(D/T)......17.95/14.95......NA MAINTAINS 300 ENTRIES MAILFILE STE.....(T).....14.95.....NA MANAGES 200 ENTRIES PER FILE MAILING LIST 64 ENT.....(NA)......39.00.....NA STE... DELUXE ADDRESSER BRI........ (T+D)......40.00...... ADDRESS MITE NEL....(D/T) ....16.95/14.95.....NA MAILING LIST DES.....(T/D).....30.00/35.00..... THE MAILING LIST GAL.....(T/D).....27.95/29.95......

## GENERAL LIST & FILE MNGMNT.

SPE.......(T).......19.95

LUN.....(T/D).....39.95/44.95.....

HOME ORGANIZER SERIES

BAT.....(D)......29.95 EA.....\*\*\*

SERIES OF 8 DEDICATED LIST MANAGERS FOR: STAMPS/ PHOTOS/
MAIL LIST/ HOME INVENTORY/ RECIPES/ CHECKBOOK/ AUDIO-VIDEO/ ADDRESS BOOK. WHILE WE ENCOURAGE READERS TO
LEARN HOW TO USE A GENERAL-PURPOSE DATABASE MANAGER AND
DESIGN THESE TYPES OF APPLICATIONS THEMSELVES, THESE
APPLICATIONS SUBSETS OF THE CONSULTANT MAY BE THE BEST
CHOICE FOR SOMEONE WITH A VERY SPECIFIC FILING NEED, OR
THOSE WHO ARE OVERWHELMED BY ANYTHING RESEMBLING

PROGRAMMING.

MAILING-LIST

MAILING LIST

MAILING LIST V2.0







THE HOME CREANIZER SERIES

HOMEBASE 1, 2, & 3 PRE(D)
PRE-PROGRAMMED HOME APPLICATIONS TEMPLATES FOR USE WITH SUPERBASE 64.
CHECK BALANCING /
EXPENSE ANALYSIS
PRENA
PRE-PROGRAMMED HOME APPLICATIONS TEMPLATES FOR USE WITH
SUPERBASE 64.
MAILPRO 64
PRL(D)129.95NA
'TOTAL FORMAT AND RECORD SELECTION CONTROLWORDPRO
COMPATIBLEUP TO 4000 RECORDS ON 1541' CAN BE USED AS
A DATABASE MANAGER.



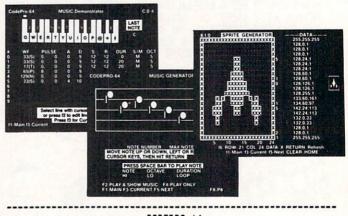
DIARY 64
HAN(R)29.95NA ELECTRONIC NOTEBOOK- KEEPS TRACK OF APPOINTMENTS, PHONE NUMBERS, MEETINGS, BIRTHDAYS, ETC. / ACCESS BY VARIOUS
KEYS (DATE, NAME, ETC.) DATA MANAGER
SDB 64
SIP(D)39.95NA GENERAL PURPOSE FILING SYSTEM FOR ADDRESSES, HOBBIES, ETC. SORT & RETRIEVE BY ANY FIELD. MENU- DRIVEN WITH
PRINTOUT CAPABILITY TAPEWORM
ECP(NA)12.95NA TAILORED EXPECIALLY FOR KEEPING TRACK OF YOUR TAPES AND
RECORDS LIST HELPER
MAG(NA)(NA)NA EDIT, ENTER, AND SORT VARIOUS LISTS LIST MITE 2
NEL(D/T)16.95/14.95NA GENERAL LIST MANAGEMENT FOR INVENTORIES, COLLECTIONS,
OMNIFILE
DATAFILE 19.95NA
INVENTORY MANAGER
FILE/CARD DIG(D)
DATA/SCAN DIG(D)
LOG MES(?)9.95NA
EVENT LOGGING AID/ LIST BY DATE OR PERSON
MCR(D)29.95NA ORGANIZES RESEARCH NOTES AND CREATES BIBLIOGRAPHY/
REPORTS/ SORT & SELECT. STAMP COLLECTOR MCR(D/T)29.95NA
STORE UP TO 14 FIELDS FOR EACH ISSUE INCLUDING CAT. NOS., CAT. VALUES, COND., PERF, WRMK., COLOR.
HOME LIBRARIAN MCR(D)29.95NA
PERSONAL ELECTRONIC CARD CATALOGUE FILE, KEEPTRACK
THIS FILE MANAGER COMES WITH A BOOK DISCUSSING USES AND EXAMPLES AS WELL AS OPERATING MANUAL.

	MAS
CLASSROOM ADMINISTRATION 🕹	EAR OR I
GRADEPRO (T/D)25.00NA	CON
FULL-FEATURED GRADING UTILITY. ALLOWS WEIGHTED OR STRAIGHT AVGS., GENERATES BAR GRAPHS OF GRADE DISTRIBUTIONS, AUTOMATIC GENERATION OF PROGRESS REPORTS.	PR
MASTER GRADES PROGRAM MWS(D)(NA)NA	INT
COMPREHENSIVE GRADES MANAGEMENT SYSTEM FOR TEACHERS. INCLUDES ATTENDANCE / POINT- SYSTEM. PERCENTAGE. AND	TWO
LETTER GRADE TRACKING AND REPORTING / UP TO 200 STUDENTS	(!) FUN
MES(D)24.95NA MULTI-CLASS GRADEBOOK/ REPORTS TO SCREEN OR PRINTER. THE ATTENDANCE MASTER	COC
MES(D)39.95NA KEEPS ATTENDANCE RECORDS FOR UP TO 39 STUDENTS PER	PRO
CLASS/ UNLIMITED # OF CLASSES.  GRADECALC TAM(D)29.95NA	נאט
KEEPS FILES OF ALL RAW GRADES & ASSIGNMENT INFO/ AVERAGES GRADES IN VARIETY OF WAYS/ GENERATES REPORTS	USE
INCLUDING MISSING ASSIGNMENTS, GRADE TOTALS & AVERAGES. ASSIGNMENT SUMMARIES ETC./ ALSO MAINTAINS AND REPORTS ON	STE
ATTENDANCE. TEACHERS' AID	GRA TEC QUI
TOL(D)22.95NA KEEP SCHEDULES, STORE SCORES, ALPHABETIZE, CROSS	PRO
REFERENCE STUDENTS & TEACHERS.  GRADE MANAGER 2 PLUS  SMO(D/T)29.95NA	CLO
SORT STUDENT LISTS, TRACK ASSIGNMENTS, GRADES, AVERAGES. REPORTS INCLUDE STUDENT LIST. ASSIGNMENT SUMMARY.	C64
MISSING ASSIGNMENTS, COMPARISON AND AVERAGES OF ANY 10 ASSIGNMENTS, CUMULATIVE AVERAGES. UP TO 100 STUDENTS	ED:
AND 65 ASSIGNMENTS PER FILE.	COD
[TYPING & KEYBOARD MASTERY 🕒]	COV INC
TYPING TUTOR/WORD INVADERS	AB:
ACA(T)21.95****  THIS IS THE BEST TYPING TUTOR WE HAVE SEEN YET; IT CAN GET YOUR CHILDREN TOUCH- TYPING IN SHORT ORDER AND BRING	HOW
AN OLD HAND UP TO SPEEED. INCLUDES EXCELLENT TRAINING MODULES AND AN ARCADE-TYPE MODE TO LIVEN THINGS UP AND	2 S DA
PUT SOME PRESSURE ON.  TYPING STRATEGY/LETTER MAN  BEH(D)34.95 EACH***+	EQU
BOTH OF THESE TYPING 'TUTORS' USE BEHAVIORAL ENGINEERING'S 'NEURO-LINGUISTIC PROGRAMMING' CONCEPTS TO	SPI
'INDUCE THE STRATEGY OF EXCELLENCE' IN THE USER'. WHILE THE TENETS OF NEURO-LINGUISTIC PROGRAMMING ARE	CodePro-64
MILDLY CONTROVERSIAL, AND BY NO MEANS A CORNERSTONE OF ESTABLISHMENT PSYCHOLOGY, WE LIKE THE THOUGHTFULNESS OF	• w
THE APPROACH (THO WE COULD NOT VERIFY ANY UNUSUAL BENEFITS TO OUR TYPING SKILLS). SEVERAL OTHER NLP-BASED	# WF 0 33(S) 1 33(S) 2 17(T)
PROGRAMS ON OTHER SUBJECTS ARE AVAILABLE FROM BEH AT SIMILAR PRICES.	3 65(P) 4 129(N) 5 33(S) 6
PAC(T)19.95*** THIS IS A PRETTY FAIR TYPING TUTOR WHICH USES A HAPPY	
FACE AND ANNOYING SOUND EFFFECTS TO PRESSURE YOU.	11-Main 13-C
TAY(T/D)19.95/24.95NA 19 LESSONS AND 12-P6. MANUAL.	ušt.
KIDS ON KEYS SPI(R)(NA)NA	
FROM SPINNAKER'S LEARNING GAMES SERIES.  TYPO  ROM  (R)  (NA)  NA	
ROM(R)(NA)NA DEVELOP SPELLING AND TYPING SKILLS WHILE ESCAPING FROM AN EVIL SPACESHIP.	

TER TYPE LIG......(D)......39.95......NA
RNED INFOWORLD'S HIGHEST RATINGS. WE LIKED THE
IGINAL AD PITCH: "LEARN TO TYPE OR GET BLOWN TO BITS".
MBINES INSTRUCTION WITH ARCADE PLAY. RODUCTION TO BASIC: CBM......(T)......21.00.......\*\*\*+

IO CASSETTES, THOROUGH MANUAL, & FLOW-CHART TEMPLATE

). WELL DONE PACKAGE TAKES THE BEGINNER THRU THE NDAMENTALS WITHOUT TEDIOUS TYPING IN OF EXAMPLE OGRAMS. 00 HES.........(D/T)......49.95.......NA OGRAMMING INSTRUCTION SYSTEM HES......(D/T)......44.95......NA
IIQUE APPROACH TO GAME PROGRAMMING INSTRUCTION: STEPS
EER THRU THE STRUCTURE OF A SAMPLE SAME UNTIL THE USER
ABLE TO ALTER OR TOTALLY RE-WRITE THE GAME. P BY STEP PDI....(D).....59.95.....NA
RADUATED INSTRUCTION ON BASIC AND PROGRAMMING
CHNIQUE. ABOUT TWENTY HOURS OF INSTRUCTION WITH IZZES. DGRAMMING IN BASIC
LYN.....(VIDED TAPE)...49.95.....NA
.OSE TO 2 HRS. OF PROGRAMMING INSTRUCTION (BASIC) ON IS OR BETA CASSETTE. TUTOR CSS......(?).....29.95......NA
ITORIAL LESSONS PLUS SCREEN DISPLAY EDITOR, SPRITE
ITOR, MUSIC SYNTHESIZER, AND PROGRAMMER'S CALCULATOR AS HÈX, BINARY, AND DECIMAL FUNCTIONS). Depro-64 SYS.....(D/T).....59.95.....NA
DVERS PROGRAMMING IN BASIC, GRAPHICS, & MUSIC.
ICLUDES SPRITE AND MUSIC EDITORS AS WELL AS
MONSTRATION PROGRAMS. ONE UNIQUE FEATURE IS THE ILITY TO SEARCH THRU THE TUTORIAL USING KEYWORDS TO ND RELATED MATERIAL. TO OPERATE YOUR TA ACCOMPANIED BY A 45 PG. PRINTED MANUAL. COVERS ULIPMENT, KEYBOARD, PROGRAMMING, GRAPHICS, SOUND, AND

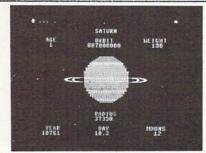


CODEPRO-64

(A)	************	***************************************	
[QUIZ-AUTH	ORING	SOFTWAR	Æ ⊕
PRODUCT NAME VENDOR CODE	MEDIA	PRICE	RTG.
CREATE LESSONS	AND ADMINIST	ER MULTIPLE (	CHOICE QUIZZES.
CREATE YOUR OWN	QUIZZES OF	ANY LENGTH O	N ANY SUBJECT.
SPELL-IT!	QUIZZES OF	ANY LENGTH OI	N ANY SUBJECT.
MULTIPLE	CHOICE	IZZES	
CREATE UP TO 15 NUMBER MAY BE E MAY BE CONDUCTE	O QUESTION A EXTRACTED FRO	ND ANSWER SET M THESE AND S	TS PER DISK. ANY SCRAMBLED. TESTS
OMNITEST			NA
DRILLMAST	ER		NA
	SYSTEM. COME		TE CAPITOLS AND
TOU COURSEWARE AUTH	IORING SYSTEM ER EXPERIENCE HE ADVANTAGE	ALLOWS TEACH TO CREATE CO S OF THE	HERS AND PARENTS USTOM COURSEWARE COMPUTER WITHOUT

## GENERAL EDUCATIONAL SOFTWARE 😃

SACRIFICING INDIVIDUAL STYLE AND METHODOLOGY.



NUMBER DISCRIMINATION

MATH TUTOR
K-6 ADDITION AND SUBTRACTION ABC
THO(D/T)21.95/18.95NA THE ALPHABET FOR PRESCHOOLERS. GRAPHICS AND SOUND VOCABULARY MASTER  GAT(T)
LANGUAGE TUTOR
DIG(T)14.95NA 3 LEVELS EACH: GERMAN OR SPANISH - OR ALL 3 ON ONE DISK FOR 29.95.
EDUCATION PAK COM(D/T)29.95/24.95NA 4 PROGRAMS: GEOGRAPHY MATCH / MATH ADVENTURE / RULER /
NICRO ROMAN NUMERALS
CRO(R&D)79.95NA CLASSROOM PACKAGE INCLUDES INSTRUCTOR NOTEBOOK AND STUDENT HANDOUTS.
THE SPEED READER II (2 DISKS) DAV(D)69,95NA
HIGH SCHOOL, COLLEGE, & ADULTS.  ROCKET LAUNCH/ ADD SPEED/ MATH SQUARES/ NOUNS & VERBS/ ADJECTIVES AND ADVERBS.
BAN(T)9.95 EA. (SET: 34.95)NA UNUSUAL ASSORTMENT OF THOUGHT-PROVOKING SOFTMARE COVERING NUMERICAL SEQUENCES, CATEGORIZATION, MATH, & PARTS OF SPEECH.
PLAYFUL PROFESSOR SCR(NA)29.95NA
ANIMATED LESSONS USE HI-RES AND SPRITES TO INVOLVE CHILDREN IN LEARNING MATH SKILLS. ANIMATED CHALK WRITES VARIOUS INFORMATION TO THE COLOREUM SCREENS
PIANO TUTOR/VIOLIN TUTOR MES(D)19.95 EANA
PUTS NOTES ON A SCALE, SOUNDS NOTE, ASKS FOR NOTE IDENTIFICATION. STUDENT SCORED FOR SPEED AND ACCURACY.
ADVANCED EDUCATIONAL SOFTWARE
FAST FOURIER TRANSFORM
RED(D)*79.95***  (* 59.95 FOR STUDENTS/PROFESSORS) FOR STUDYING OR USING THE FFT./ MULTI-MODE INPUT, TRANSFORM, SAVE, AND HI-RES DISPLAY PLUS UTILITIES AND SAMPLE DATA CASES. INCLUDES EXTENSIVE DOCUMENTATION.
ALGEBRA ARCADE WEP(D)
GRAPHING OF ALGEBRAIC EQUATIONS (UP TO 40 CHARACTERS) IN HI-RES ON COORDINATE SYSTEM. GAME-MODE HAS YOU ZAPPING 'ALGEBROIDS' WITH THE GRAPHS OF EQUATIONS YOU WRITE. MUCH MORE FUN AND USEFUL THAN IT MAY SOUND.
NUMBER CRUNCHER HIN(D)59.95***+
MENU-DRIVEN STATISTICAL PACKAGE: USER BUILDS DATABASE OF UP TO 3000 LABELED ITEMS/ FOURTEEN TRANSFORMATIONS AVAILABLE/ HANDLES MISSING VALUES/ SECTIONS INCLUDE: UNIVARIATE & BIVARIATE STATISTICS, SCATTER PLOTS, FREQUENCY TABLES & HISTOGRAMS, T TESTS, ONEWAY ANALYSIS
OF VARIANCE, MULTIPLE REGRESSION, STEPWISE REGRESSION. & CHI-SQUARE CONTINGENCY TABLE ANALYSIS. CHARACTER GRAPHICS ONLY- WOULD BE MUCH NICER WITH HI-RES GRAPHING.

MES.....(D).....24.95.....NA
PACKAGE FOR TEACHING STATISTICS INCLUDES: BINOMIAL
FREQUENCIES, CONFIDENCE INTERVALS, COMPARISON OF MEANS,

CHI-SQUARE, CORRELATION COEFFICIENT, LINEAR REGRESSION, CENTRAL LIMIT THEOREM, ANALYSIS OF VARIANCE, AND BAR

MES......(D/T).....19.95/14.95.....NA
DRILL PROGRAM COVERS DECIMALS AND NEGATIVE NUMBERS.

STAT

COMP

GRAPH GENERATOR.

[ADVANCED EDUCATIONAL (CONT'D)
MASTER MATH SERIES (#1-6) (\$150.00 FOR SET)
PMI(D)30.00 EACHNA 1- LOGS & ANTILOGS 2- ALGEBRA & SETS 7- ALGEBRA & SETS
3- AREAS & VOLUMES 4- TEST PROBLEMS: FACTORS, INTEREST, TRIG, CALCULUS, PERCENTS, BASES AND EXPONENTS
5- TEST PROBLEMS: ALGEBRA, GEOMETRY, STATISTICS, RATIOS, EXPONENTS 6- TEST PROBLEMS: GEOMETRY, LCM, MAPPINGS, FRACTIONS,
ALGEBRA, CURRENCY.  C-64 WORLD CLOCK  RAK(D/T)10.95/7.95NA
SHOWS HI-RES GRAPHIC WORLD MAP AND CALCULATES WORLD TIMES/ CORRECTS FOR DAYLIGHT SAVING TIME & PLOTS APPARENT POSITION OF SUN RELATIVE TO EARTH.
USE(D)29.95NA 25+ PROGRAMS ASSIST IN STUDY OF COLLEGE-LEVEL MATH, PHYSICS, CHEMISTRY, ENGINEERING, LANGUAGE, HISTORY, & MEDICINE.
64-S.A.T.  CRG(R&D)129.95NA  AID PROSPECTIVE COLLEGE ENTRANTS IMPROVE S.A.T. SCORES/
COMPUTER SAT
HBJ(D)79.95NA  1000 VOCAB-BUILDING FLASH CARDS/ 540 DRILL ITEMS/ COMPLETE 470 PG. TEXT BODK/ 4 FULL-LENGTH EXAMS/ SCORES & TIMES/ DIAGNOSES STRENGTHS & WEAKNESSES/ PRESCRIBES DRILLS AND REVIEWS.  ACT/SAT REVIEW
98+ PROGRAMS WITH 50,000 QUESTIONS. MATH SAT / ENGLISH SAT
MLI(D)30.00 EANA ASTRO POSITIONS MTS(D)49.95NA
FOR BOTH ASTRONOMERS & ASTROLOGISTS. PROVIDES POSITIONAL DATA FOR 92 STARS, THE PLANETS, SUN AND MOON FOR ANY
LOCATION ON ANY DATE AND TIME. PRINTS OR DISPLAYS ASTROLOGICAL CHART DATA.  CONSTELLATION QUIZ
ASTRONOMY LESSONS AND QUIZZES  MATHPAK
LOG(T)49.50NA 6 PROGRAMS (AVAILABLE INDIVIDUALLY FOR 12.50 EA.): STATISTICS. LINEAR EQUATIONS, DATA AND FUNCTION PLOTTING, FUNCTION ANALYSIS, COMPLEX FUNCTIONS, AND MATRIX OPERATIONS. SOME INCLUDE PLOT AND GRAPHING
ROUTINES FOR PRINTER.  THE ACCOUNTING TUTOR  TWZ(D)64.95NA  TEACHES ACCOUNTING CONCEPTS USING CONCEPTS BORROWED FROM
ARTIFICIAL INTELLIGENCE SYSTEMS.

PRODUCT NAME VENDOR CODE

PRICE MEDIA

RTG.

PUBLIC DOMAIN CBM......(D).......250.00.......\*\*\*

646 PROGRAMS ON 52 DISKS WITH INDEX. COVERS BROAD RANGE
OF SUBJECTS AND AGE-GROUPS. MOSTLY EDUCATIONAL WITH
SOME ENTERTAINMENT, ADMINISTRATIVE, AND DEMONSTRATION
SELECTIONS. NOT ORIGINALLY AVAILABLE TO INDIVIDUAL CONSUMERS, EXCEPT THRU SCHOOLS AND CLUBS, THE SET IS BEGINNING TO SHOW UP FOR SALE AT SOME DEALERS NOW.

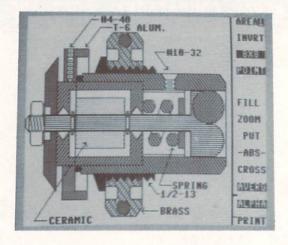
EDUCATIONAL 4-PACKS MED.....(T)......34.95 EA......NA
26 SEPARATE PACKAGES: MOST SUBJECTS COVERED (FROM SOCIAL
STUDIES TO DRIVER ED), GRADES K THRU COLLEGE. SOLD IN
'4-PACKS' OF RELATED MATERIALS. FOR AGES 3-9, SOUND AND GRAPHICS, MOST INTERFACE WITH P61's EDUMATE LIGHT PEN. ENTIRE SET AVAILABLE ON DISKETTE FOR \$79.95

EDUCATIONAL ASSORTMENT MPH....(D/T)....(NA).....NA

GRADES 4 THRU COLLEGE. ALL SUBJECTS INCLUDING SAT ANALOGIES, ANAGRAMS, CALCULUS, PHYSICS, AND CHEMISTRY.

EDUCATIONAL ASSORTMENT RSL...(D/T).....19.95 TO 49.95....NA
GRAMMAR, PHONICS, ELEMENTARY MATH, FUN PACKS
(EDUCATIONAL GAMES). ASSORTED EDUCATIONAL DAB......(D/T).....29.95 TO 39.95......NA
AGES 3 TO COLLEGE/ WELL-ROUNDED SELECTION/
SELF-DIRECTING PROGRAMS NEED NO ADULT SUPERVISION/
SELF-CORRECTING & SELF-MOTIVATING. (WE ESPECIALLY LIKE
THE SOUND OF 'DISCOVER' FOR 3-5 YRS. AND
'PERPLEXITY'-PROBLEM SOLVING, LOGIC, & ORGANIZATIONAL
SKILLS FOR 7 YRS.+) EDUCATIONAL ASSORTMENT EAI.....(D).....(NA).....NA
WIDE RANGE OF SUBJECTS. BACK-UP DISKS WITH ALL PROGRAMS.

## GRAPHICS SOFTWARE



FLEXIDRAW 3

FLEXIDRAW 3 (includes Inkwell's excellent light pen) WITH INKWELL SYSTEMS' PROFESSIONAL GRADE LIGHT-PEN)
SUPPORTS TRUE HI-RES. (320X200) WITH ELABORATE AREA
PATTERN FILLS, UNLIMITED TEMPLATE CREATION, TWO SIZES OF
PRINTOUT, SPRITE EDITOR, ANIMATION ROUTINES, COLORING
MODE, TELECOMMUNICATIONS MODE FOR TRANSMITTING GRAPHICS VIA MODEM, PROGRAMMING GRAPHICS LANGUAGE/ MORE! TOY (BUT LOTS OF FUN!) - (SEE REVIEW IN ISSUE #2)

PRODUCT NAME VENDOR CODE

MEDIA

RTG.

MICRO-ILLUSTRATOR

ISL......(D)......VARIES......\*\*\*\*
DIFFERENT VERSIONS OF THIS SOFTWARE ARE FOUND THROUGHOUT A GROWING VARIETY OF SYSTEMS INCLUDING: KOALA PAD, POWERPAD, TECH SKETCH LIGHT PEN, AND SOON TO BE MARKETED BY COMMODORE FOR THE 64 IN A JOYSTICK VERSION.

PRICE

PAINT MAGIC

'GRAB' FUNCTION, MERGE 2 PAGES OF GRAPHICS TOGETHER. SCREEN-DUMPS NOT DIRECTLY SUPPORTED.

DOODLE CIS......(D).....39.95......\*\*\*
ROUTINES INCLUDE PAINT & ERASE WITH 8 BRUSH SIZES,
DUPLICATE, ENLARGE, REDUCE, REVERSE, MIRROR. MENUDRIVEN / COLOR/ TEXT MAY BE VARIOUS SIZES, ORIENTATIONS,
MIXED WITH GRAPHICS, ZOOM, MARVELOUS 'OP ART' FEATURE,
BUILT-IN GRAPHICS DUMPS TO PRINTER AT SINGLE OR DOUBLE

SIZE. CADPIC

KIW.....\*\*\*\*

IT'S HARD TO RATE THIS PACKAGE BECAUSE IT DOES SO MUCH,
BUT DOES IT WITH SUCH DIFFICULTY. CADPIC IS ACTUALLY TWO PROGRAMS (PAINTPIC AND PRINTAPIC.)
ROUTINES INCLUDE SUCH UNUSUAL FEATURES
PERSPECTIVE LINES / ENDLESS BRUSH PATTERNS THE DRAWING AS TILT / LOAD-SAVE PARTIAL PICTURES / HALVING / DOUBLING / & ROTATION (IN PARTIAL PICTURES / HALVING / DOUBLING / & ROTATION (IN ADDITION, THERE ARE ROUTINES FOR DESIGNING HOOKED RUGS AND 4-COLOR SEPARATIONS!). THE PRINTING ROUTINES PRODUCE GRADUATED GREY-SCALE PRINTOUTS (WHICH CAN TAKE OVER 2 HRS. TO DUMP). ALSO NOTABLE IS CADPIC'S ABILITY TO WORK WITH MICROMEYE IMAGES AND TO TRANSLATE AND DUMP KOALA PICTURE FILES. THE BIG PROBLEMS WITH CADPIC ARE THAT IT DOES EVERYTHING SLOWLY, AND THE MANUAL IS ONE OF THE HARDEST TO READ AND EXTRACT INFORMATION FROM I HAVE EVER SEEN. PAINTEL AND PRINTABLE AVAILABLE EVER SEEN. PAINTPIC AND PRINTAPIC ARE AVAILABLE INDIVIDUALLY FOR 39.95 & 44.95. RESPECTIVELY. (MAYBE ALL THESE PROGRAMS REALLY NEED IS A GOOD ERG-CARD!)

GRAPHICS MASTER 

PERIPHERAL VISION

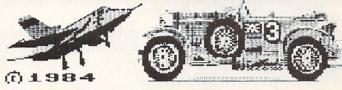
(\$59.95 WITH LIGHT PEN)

PGI....(D).....39.95.....\*\*\*
FULL-FEATURED LIGHT-PEN-DRIVEN COLOR GRAPHICS PACKAGE.
SIMILAR IN DEPTH & FEATURES TO MICRO ILLUSTRATOR. INCLUDES PRINTER DUMP ROUTINE. USE WITH PGI'S EDUNATE LIGHT PEN.

COMPUTER CRAYONS

PLA...(D/T)....29.95.....\*\*\*
'ELECTRONIC COLORING BOOK' READY TO PAINT PICTURES ON THE SCREEN PLUS ROUTINES FOR DRAWING YOUR OWN: AUTO LINES, CIRCLES, BOXES, ERASING/ STORE & SAVE. AIMED AT YOUNGER CHILDREN: HAS A VERY 'CRAYON-LIKE' FEEL & LOOK.





### CADPIC

'64 GRAFIX SAMPLER IMPRESSIVE.

CADPAK-64 DEFINE, SAVE, RECALL, SCALE, & ROTATE / ZOOM / AUTOMATIC SHAPES / COPY / AND HARD-COPY TO POPULAR PRINTERS. LIGHTPEN NOT INCLUDED (THEY RECOMMEND MADISON COMPUTER'S MCPEN AVAILABLE FROM ABACUS FOR \$49.95.

GIBSON LIGHT PEN SYSTEM

KOA...(D)...(250.00......NA

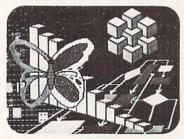
SOON TO BE RELEASED FOR THE 64, THIS LIGHT PEN WILL

INCLUDE 5 SOFTWARE SUB-SYSTEMS INCLUDING: PENPAINTER

(FREEHAND SKETCHING), PENDESIGNER (TEMPLATE DRAFTING),

REMAINIANT ON PROUTINES), PENNING COMMANDER

(ANTANTON POULTINES), PENANIMATOR (ANIMATION ROUTINES), PENMUSICIAN, AND PENTRAK LANGUAGE SYSTEM (FOR DEVELOPING YOUR OWN APPLICATIONS.) I HAVE SEEN THE PROTOTYPE AND WAS ESPECIALLY PLEASED WITH THE MAC-LIKE PULL-DOWN MENUS.



GIBSON LIGHT PEN SYSTEM



PERIPHERAL VISION

GRAPHICS	SOFTWARE	(CONT'D)	
PICTURE MWE	(0)	24.95	NA
JOYSTICK DRAW	ING/ 15 COLORS/ / SAVE PICTURES	AUTO CIRCLES, LINES, BOXE	5/
KOA	(D)	24.95 EA BE COLORED IN USING T	NA HE
LOGO DES	(D)	. (NA)	NA
MEGA DRA		AGE 15.95/12.95	NA
16 COLOR 'H HARDCOPY. SLIDE SE	II-RES' DRAWING	- JOYSTICK OR KEYBOAR	D,
FOR KOAL	A PICTUR	. (NA)	NA
THIS OUTFIT W SCREENS, SIM PICTURES YOU TRI GRAP	WANTGET BACK	SLIDES OF YOUR KOALA-P DISKETTES CONTAINING T SLIDES!	AD HE
SKETCH IN CO BUILD SHAPE-S	DLOR/ CREATE C SCREEN LIBRARIES	34.95. HARTS/ ANIMATE CHARACTER	NA S/
MOVIEMAK RES	(D)	(NA) EM CAUSED QUITE A STIR	NA
CES: IT WILL THE 64- SHOUL HESFONT	BE AVAILABLE S	OMETIME LATER THIS YEAR F	OR
FONT EDITOR F	ACILITATES CREA	19.95 TION AND EDITING OF TEXT A S TESTING OF ANIMATI	ND
SEQUENCES. THE GRAP	HICS MAG	L READY TO USE FONTS.	
CLAIMS THAT	ANIMATION AND	.59.95	IIS
TRANSFERABLE	BETWEEN THE 64	SOFTWARE. <u>GRAPHICS</u> FILES SYSTEM ARE SAID TO AND THE MAC, IBM, & ATARI.	BE
USE JOYSTICK	(D)	21.95 RES' COLOR DRAWINGS. STO	NA
ON DISK.	(D/T)	24.95	NΔ
M.L. HIGH-RES	DRAWING. SINGL SPEEDS / BLOCK / SAVE TO DISK	E-KEY COMMANDS / JOYSTI DUPLICATION / ERASE / 15 OR TAPE	CK 125
SCRIBBLE	R	.35.95	
PAINT WI	ZARD	HOIKED.	
DEL TA DE	AMING	<pre>&lt; 40.00 ic circles, lines, patterns</pre>	
SCREEN-G	RAPHICS:	(NA)	NA NA
DRAWING POIN	MANDS TO BASIC TS. LINES, BOXES TAPE OR DISK.	27.95/24.95 ALLOWING SIMPLE MEANS F S, AND SPRITES. DISPLAYS (	OR
CERTINI	660 Japan		)

## PLOTTING & PRINTER GRAPHICS <

PRODUCT NAME VENDOR CODE

MEDIA PRICE

RTG.

DOODLE

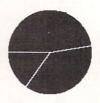
CIS......(D)......39.95......\*\*\*

I REPEAT THE LISTING OF DOODLE HERE BECAUSE I USE IT PRIMARILY FOR PRINTER GRAPHICS (MANY OF THE TITLES & LABELS IN THIS ISSUE) AND IT IS VERY POWERFUL IN THAT APPLICATION-THE OTHER FEATURES (COLOR, FREE-FORM SKETCHING ETC.) ARE LESS IMPRESSIVE BONUSES.

CHARTPAK-64

ABA.....(D)......42.95.....\*\*\*
TAKES DATA INPUT (MANUALLY OR FROM BUSICALC) TO PRODUCE
A WIDE VARIETY OF BUSINESS CHARTS & GRAPHS TO SCREEN OR
PRINTER. AUTO-SCALING/ PIE, LINE, BAR, & COMPARATIVE
CHARTS/ DISPLAYS UP TO 4 DATA SETS SIMULTANEOUSLY/
COLOR & SHADING SELECTION/ 2 PRINT SIZES/ SAVE TO DISK.





FLEXIPLOT

INK......(SEE FLEXIDRAW IN GRAPHICS SECTION)
NOW INCLUDED WITH FLEXIDRAW, PLOTTING ROUTINES CURRENTLY
SUPPORT THE CBM 1520 PLOTTER AND SWEET-P MODEL 100
PLOTTER.

PRINTER UTILITY PROGRAMS

CAR......(D/T).....24.95/19.95.....\*\*\*+

ALLOWS SCREEN DUMPS (NORMAL OR REVERSED) TO ALMOST ALL

DOT MATRIX PRINTERS. ALSO ALLOWS PRINTING OF ENTIRE CBM

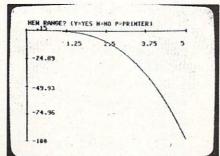
CHARACTER SET (GRAPHICS SYMBOLS TOO). ALSO INCLUDES TWO

LARGE PRINTER FONTS FOR BANNERS OF VARIOUS SIZES.

### Shakespeare Writer

SHAKESPEARE WRITER
ACA(D/T)21.95/16.95NA SIMPLE WORDPROCESSOR UTILITY AND CUSTOM FONT SET ALLOWS
COMPOSING AND PRINTING OUT TEXT IN OLD-ENGLISH TYPE-STYLE.
MATH GRAPH
SIM(NA)19.95NA A BANNER/HEADLINER
MID(T)
USE TO CREATE LARGE BANNERS ON A VARIETY OF PRINTERS.  BOLDFACE
LOG(T)18.00NA
ALLOWS USE OF 3 CUSTOM FONTS FOR SPECIAL EFFECTS PRINTING.
THE GRAPHICS ASSISTANT RAI(D)79.95NA
BUSINESS GRAPHICS PACKAGE INTERFACES WITH RAINBOW'S
BUSINESS SOFTWARE FOR CHARTS, GRAPHS, ETC. BAR, LINE, & PIE CHARTS GENERATED FROM BUSINESS DATA/ MIXED TEXT &
GRAPHICS SUPPORTED. THE BANNER MACHINE
VIR (D/T)49,95
PRODUCES B SIZES OF TEXT PRINT-OUT TO YOU EPSON, COMMODORE, OKIDATA, OR PRO-WRITER PRINTER. TEXT FROM
3/4" TO 8" HIGH. ALSO PRINTS BORDERS.
INSTA-GRAPH CIM(NA)(NA)NA

CHARTPLOT-64 SWEET-P, & ROLAND)
GRAF 64 HAN......(NA).....29.95....NA
CONVERTS MATH FUNCTIONS INTO GRAPHICAL ANALYSIS. DEFINE HAN... A FUNCTION, SET LIMITS, PLOT GRAPH WITH EXTREMES, INTERSECTIONS, ETC. HEN RANGE? (Y=YES H=HO P=PRENTER)



PRODUCT NAME VENDOR CODE

MEDIA

PRICE

RT6.

SPRITEMASTER 64

ACC.....(D)......35.95.... JOYSTICK OR KEYBOARD SPRITE CREATION/ MULTI-COLOR/ SAMPLES INCLUDED/ ANIMATION ROUTINES INCLUDED/ SPRITES MAY EASILY BE APPENDED TO USER PROGRAMS.

SPRYTEBYTER

MIS......(D)......34.95.....\*\*\*

MENU-DRIVEN / SUPPORTS MULTI- COLOR / JOYSTICK OR KEYBOARD / M.L. ROUTINES / OVER 60 COMMANDS / ROTATE, INVERT, OBVERT, SYMMETRY, AND/OR, REVERSE, ETC. / MOVIE MODE / CREATE UP TO 128 SPRITES PER FILE. RUNS VERY FAST. MENUS ARE EFFECTIVE. PRINTOUTS SHOW SPRITE STRUCTURE AND ALL NECESSARY DATA TO USE IN PROGRAMS.

DELUXE SPRITE SHAPER

QUA....(T/D)...29.95/31.95....\*\*

MULTI-COLOR SPRITE EDITOR.

SPRITE DESIGNER MTS...... (D)......34.95..........\*\*\*

SPRITE DESIGNER 

CRO.....(NA).....49.95......NA
ASSEMBLY LANG. / SUPPORTS 64 SPRITES ON SCREEN AT ONE
TIME / USE JOYSTICK OR PADDLES / ADDS VARIABLES TO BASIC
(SPRITE X, SXX, SYX ETC.) NO POKES NEEDED.

SPRITE-AID

ABA.....(T/D).....14.95/17.95.....NA
FULL-FEATURED SPRITE EDITOR: SAVES SPRITES AS
READY-TO-USE DATA STATEMENTS. SUPPORTS JOYSTIKS, KEYBOARD, AND MULTI-COLOR.
SPRITE EDITOR

LUN.... . (T) .. CREATE MULTI-COLORED SPRITES.

CHARACTER GENERATOR

WEO.....(D)......24.95..... .POWERFUL HI-RES GRAPHICS & TEXT THRU REDEFINED CHARACTERS. \*

SPRITE GENERATOR

WEO.....(D)......24.95.....

GAME DESIGNER 64 ENT.....(D/T).....35.95.....NA
DESIGN GAME CHARACTERS, BACKGROUNDS, SCREENS/ ANIMATE UP
TO 16 SPRITES/ LINK WITH OTHER PROGRAMS/ COMBINES WITH ENTECH'S STUDIO 64 (FOR ADDING SOUND ROUTINES).

SPRITE WRITER ACS.......(NA)......19.95/24.95.....NA SPRITEWRITER SPRITE FUN 64 ENT......(NA)......30.00.... SPRITE GEN FAN......(D/T)......17.95/15.95.....NA SPRITEMAKER GTR.......(T)......10.00......NA SUPER SPRITE LIT.....(D).....(NA)..... MULTI-COLOR CHAR. EDITOR

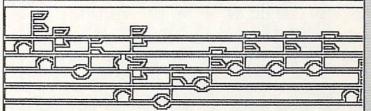
JUS. .....(D/T). ....21.95/19.95. ....NA

CREATE YOUR OWN CHARACTER SETS. LOAD AND SAVE / 192

CHARS. AT A TIME / ROTATION AND SHIFTS / CURSOR CONTROLLED SPRITE GRAPHICS DEV. PACKAGE TSI......(D/T).....19.95......NA
EDIT 128 NORMAL OR MULTI-COLOR SPRITES/ 'HELP' FEATURE/
35 COMMANDS/ MACHINE CODE ROUTINES/ 32 SPRITES
DISPLAYABLE AT ONE TIME.



## "CALLEXY" SECTION FOR A LOOK AT HIYAT'S COCKIO' OO THE G4 LATELY!



## ERSONAL ENRICHMENT

DIET CALC

MYS......(D/T).....24.95/19.95....\*\*
TELL THE COMPUTER WHAT YOU ATE AND WHAT YOU DID, AND IT WILL CALCULATE YOUR GAIN (OR LOSS)

MODEL DIET

SFS.....(D/T).....29.95/24.95....\*

"ANALYZES YOUR DIET...BASED ON GOVERNMENT RESEARCH...TRACKS CALORIE INTAKE..." (SEE REVIEW IN ISSUE #3).

THE HYPNOTIST





## ERSONAL ENRICHMENT (CONT'D) 🖑

EXPANDO-VISON PROGRAMS

STI......(NA)......39.95 EA........NA
SUBLIMINAL PROGRAMMING SYSTEM (REQUIRES \$89.00
INTERFACE). CHOOSE FROM 8 PROGRAMS: WEIGHT
CONTROL/EXERCISE, SHOKING/CALM NERVES, STRESS/POSITIVE
THINKING, DRINKING/RESPONSIBILITY, ATHLETIC
CONFIDENCE/GOLF, STUDY HABITS/MEMORY, CAREER/SUCCESS,
SEXUAL CONFIDENCE. SYSTEM FLASHES MESSAGES TO YOUR
TELEVISION FOR 1/30 SECOND WHILE WATCHING YOUR FAVORITE
SHOWS - TOO FAST TO NOTICE, BUT LONG ENOUGH TO BE
ABSORBED BY THE SUBCONSCIOUS. MESSAGES MAY BE VIEWED IN
SLOW-MOTION IF YOU WANT TO KNOW WHAT YOU'VE BEEN
'READING'. (SEE REVIEW THIS ISSUE.)

AEROBICS
SPI.....(D)......NA

SPI....(D)....(NA).....NA
LEADS YOU THROUGH WARM-UPS, STRETCHES, AEROBICS, & COOL-DOWN.

TOTAL HEALTH

CSA......(NA).....(30.00......NA
GUIDE TO DIET & EXCERCISE: MONITOR FOOD INTAKE/ PLOT
EFFECTS OF VARIOUS EXCERCISE & EATING COMBINATIONS/ DATA
ON 200 FOODS INCLUDES COVERING CALORIES, CARBOHYDRATES,
SODIUM, FAT, AND PROTEIN/ CALCULATES DAYS TO REACH
WEIGHT GOAL BASED ON USERS PLAN.

BIORHYTHM+

CY6......(D/T).....29.95/24.95.....NA
HAVE YOUR 64 'THROW' AND INTERPRET HEXAGRAMS FROM THE
ANCIENT CHINESE 'BOOK OF CHANGES'

SNS.....(D/T).....24.95/19.95.....NA
45-MINUTE, 60-QUESTION PROGRAM FOR AGES 9 & UP TESTS AND
CALCULATES 10/ INCLUDES EXPLANATIONS/ CLAIMS TO HELP
IMPROVE 10 TEST PERFORMANCE.

IMPROVE IQ TEST PERFORMANCE.

ELAX STRESS-REDUCTION SYSTEM

SYN.....(D)......99.95......NA

THIS LOOKS LIKE ONE OF THE BEST APPLICATIONS FOR A

PERSONAL COMPUTER TO COME ALONG IN SOME TIME. A TOTAL

STRESS REDUCTION SYSTEM INCLUDING A THREE-SENSOR

HEADBAND CONNECTED TO AN EMG (ELECTROMYOGRAPH) CONTROL

UNIT, AUDIO TAPE WITH DEEP RELAXATION EXERCISES, A

PERSONAL PROGRESS WORKBOOK, AND SOFTWARE PROVIDING

GRAPHICAL REPRESENTATION OF STRESS VS. TIME WHICH CAN BE

DIRECTED TO SCREEN & PRINTER AS WELL AS THREE TENSION
RELAXATION "GAMES" AND PROVISIONS FOR PROGRAMMING-IN

SUBLIMINAL MESSAGES TO FURTHER AID IN STRESS-REDUCTION.

DEVELOPED WITH THE AID OF SEVERAL DISTINGUISHED EXPERTS DEVELOPED WITH THE AID OF SEVERAL DISTINGUISHED EXPERTS IN THE FIELD.

DIETRON TMM......(D)......(NA)........NA
WEIGHT REDUCTION & CONTROL: CALCULATES POTIMAL DAILY
CALORIC INTAKE / HELPS PLAN MENUS / CHECKS PROPOSED MEAL
PLANS AGAINST 250 ITEM FOOD DATABASE AND OUTPUTS
PERTINENT STATISTICS ON YOUR CHOICE / KEEPS CUMULATIVE
RECORD OF EACH FAMILY MEMBER'S ACTUAL INTAKE.

PRODUCT NAME VENDOR CODE

MEDIA

PRICE

36 HORSE RACE HANDICAPPER

36C....(D/T)....29.95.....\*\*\*

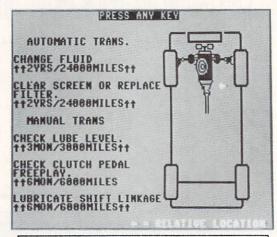
USES 10 OF THE MOST IMPORTANT FACTORS IN RACE OUTCOMES
TO CALCULATE ODDS. USE DAILY RACING FORM TO PROVIDE
PROGRAM WITH NECESSARY DATA. MANUAL INCLUDES TIPS ON
USING THE ODDS GENERATED BY THIS SYSTEM.

### COMPUTER MECHANIC

SFS.....(D/T).....26.95/21.95.....\*\*

ANALYZES WIDE RANGE OF SYMPTOMS BASED ON USER INPUT:
TROUBLE-SHOOTING GUIDE / GENERATES MAINTENANCE
SCHEDULES/ HI-RES GRAPHICS SHOW CAR LOCATIONS BEING REFERED TO

(SEE REVIEW IN ISSUE #3)



### COMPUNER MECHANIC

THE HANDICAPPER

(THOROUGHBRED & HARNESS VERSIONS)

FED......(T)......29.95 EACH.......NA
CONSIDERS SPEED. DISTANCE, CLASS, TRACK CONDITION, POST
POSITION, PAST PERFORMANCE, JOCKEY OR DRIVER ABILITY,
ETC. TO RANK HORSES FOR EACH RACE. HANDICAP A RACE IN
MINUTES, A WHOLE CARD IN LESS THAN AN HOUR. FOR
BEGINNERS & VETERANS ALIKE, (44.95 FOR BOTH)

FOOTBALL SCOUT

CHART.

PRO-GENY

ACS.....(?).....49.95.....NA
GENEALOGY PROGRAM/ CONFORMS TO LDS STANDARDS/ RECORDS
FOR 4 GENERATIONS OF UP TO 10 CHILDREN EACH GENERATION. THE WORD

BRS.....(D).....199.95.....NA
COMPLETE KING JAMES V BIBLE ON DISK.

BRS.....(D)......49.95.....NA
DISK-BASED INDEX TO OVER 200 SCRIPTURE SUBJECTSCOMPANION PRODUCT TO 'THE WORD', ABOVE.

ACTI-TRIP/SPEND/MENU

SEI.....NA)....24.95.....NA
3 PROGRAMS IN ONE PACKAGE: TRIP PLANNING, SPENDING, &
MENU (FOOD) PLANNING.

64 PAK

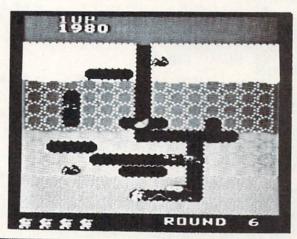
CSA.....(NA).....(NA).....NA
TEN-PROGRAM BUNDLE FOR THE WHOLE FAMILY: 'FLASH CARDS'
USER-DEFINED FLASH CARDS FOR DRILLS ON MATH, VOCAB ETC.
/ 'SPEED READ' RE-TYPE PHRASES (USER-DEFINABLE) FLASHED
BRIEFLY ON THE SCREEN / 'SIGN TALK' TEACHES THE SIGNING
HAND-CODE OF THE HEARING-IMPAIRED / 'LIFE EXPECTANCY' / 'PERPETUAL CALENDAR' DISPLAY ANY MONTH FROM B.C. TO 9999
A.D. / 'WORLD CLOCK' / 'STATES & CAPITALS' / 'MORTGAGE
CALCULATOR' / 'BIG TIME' LARGE ON-SCREEN COLOR DIGITAL
CLOCK / 'CASH REGISTER' SHOPPING SIMULATION TEACHES
CHILDREN TO MAKE CHANGE.

PRO-BOWL

ACS.....(D).....199.95....NA
RECORD KEEPING AND HANDICAPPING FOR BOWLING LEAGUES
(...WE WOULD ADD 'WELL-FUNDED' BOWLING LEAGUES)

### SCELLANEOUS (CONT'D) INSTA-SCHED PERPETUAL CALENDAR MONTHLY MANAGER (TIME & BUDGET MGR.) .. (NA) ... ....29.95......NA RECIPES SUPREME MES.....(D).....29.95.....NA COMES WITH FORTY RECIPES ON DISK. USERS MAY STORE THEIR OWN RECIPES. RECIPES CAN BE AUTOMATICALLY RE-SIZED BASED ON DESIRED NUMBER OF SERVINGS. RECIPE BOX ARI.....(D).....19.95....NA MENU-DRIVEN 'KITCHEN DATA BASE': SEARCH BY INGREDIENT / SEARCH BY CATEGORY / SEARCH BY BOTH / MEASUREMENT & SERVING CALCULATIONS / DUMP TO PRINTER DECISION MAKER CRE........(D/T)......19.95/14.95......NA CAR COSTS CRE.....(D/T).....19.95/14.95.....NA INVENTORY SYSTEM INVENTORY HOME HOME INVENTORY UTILITY TRACKER & FORECASTER MIQ......(NA)......29.95......NA C\*A\*R\*S NLI......(D/T).....27.50/24.50.....NA GRAPH & MONITOR CAR COST & EFFICIENCY/ INCLUDES INSURANCE, PAYMENTS, TAXES, LICENSE FEES & REPAIRS/ PRINTED OR SCREEN REPORTS. BASKETBALL STATS MWS.....(D).....39.50.....NA MENU-DRIVEN AID FOR COACHES: TRACK 18 PLAYERS THRU 30 GAMES / REPORTS ON FIFTEEN STATISTICS (ELEVEN ARE PRE-DEFINED) / PRINTER SUPPORTED IRCADE & ACTION GAMES ZEPPELIN SYN.....(D/T).....34.95.....\*\*\*\* A WONDERFULLY ANIMATED. CONVOLUTED GAME! THIS MAY LOOK LIKE SOME OTHER FLY-THRU-THE-TUNNELS GAMES, BUT THIS ONE IS REALLY ADDICTIVE. (SEE 'GALLERY' ISSUE #3) WIZARD WITH THE ROPES AND LADDERS THEME, NIZARD SPARKLES WITH BRILLIANT ANIMATION, VISUAL HUMOR, CREATIVE SPELLS, AND PROFESSIONAL SOUND EFFECTS. BEST OF ALL, THE GAME HAS A FULL-BLOWN CONSTRUCTION SET MODE WHICH ALLOWS TOTAL CONTROL OVER ALL THE GAME PARAMETERS, AND PROVIDES THE USER WITH THE TOOLS TO CREATE 50-SCREEN DISKS OF THEIR OWN DESIGN. JUMPMAN NIGHT MISSION PINBALL

THE GAME.



### DIG-DUG

(SEE 'GALLERY'- ISSUE#3)

DONKEY KONG

ATA.....(R)......44.95.....\*\*\*\*

THE ORIGINAL NINTENDO ARCADE GAME BROUGHT TO COMMODORE
BY ATARI! IF YOU NEED THIS GAME DESCRIBED, YOU HAVE
BEEN OFF THE PLANET FOR THE LAST COUPLE OF YEARS. THE
64 VERSION OUTSHINES EVEN THE ATARI VERSION.
(SEE 'GALLERY'- ISSUE #2)

SYN.....(D/T).....34.95......\*\*\*\*

STRAFING & BOMBING ACTUALLY MADE FUN. VERY DETAILED ANIMATION, GRAPHICS, AND SOUND. BLUE MAX IS LIKE A WORLD WAR I VERSION OF 'ZAXXON', WITH ANGLED SCROLLING, AND REALISTIC SHADOW UNDER PLANES. READOUTS FOR FUEL, DAMAGE, WIND. LANDING GEAR, ETC.

(SEE 'GALLERY' ISSUE #3)



BLUE MAX

## ARCADE & ACTION GAMES CONTO

SOUND, GRAPHICS AND GAME-PLAY. (SEE 'BALLERY'- ISSUE #2)

BUGABOO QUI......(D/T).....29.95/24.95....\*\*\*\*
HIGH MARKS FOR ORIGINALITY! WHIMSICAL FANTASY GAME IN
WHICH YOU ARE A CUTE LITTLE FLEA TRYING TO AVOID A FLEA-EATING PRTERODACTYL!

(SEE 'GALLERY' ISSUE #3)

ZAXXON

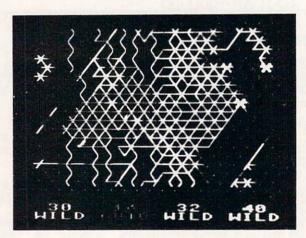
SYN......(D/T).....34.95/39.95.....\*\*\*\*
3-D EFFECT WITH ANGLED SCROLLING, SHADOWS; A WINNER.

GRIDRUNNER

WORMS

UNIQUE GAME IN WHICH PLAYERS (UP TO 4) PROGRAM THEIR COLORFUL, MUSICAL "WORMS" TO TAKE OVER AND DOMINATE THE GAME GRID. THE 64 WILL PLAY THE PARTS OF ANY MISSING PLAYERS.

(SEE 'GALLERY' ISSUE #3)



### 

ROBOTRON: 2084

ATA......(R)......44.95......\*\*\*\*+

IF YOU LIKED IT IN THE ARCADES. YOU'LL BE HAPPY WITH

THIS ATARI CONVERSION OF THE WILLIAMS GAME FOR THE 64. (SEE 'GALLERY'- ISSUE #2)

PAC-MAN

ELE.....(D)......35.00......\*\*\*\*
ENTERTAINING ARCADE GAME, ALONG THE LINES OF, BUT NOT QUITE AS GOOD AS 'JUMPHAN'.

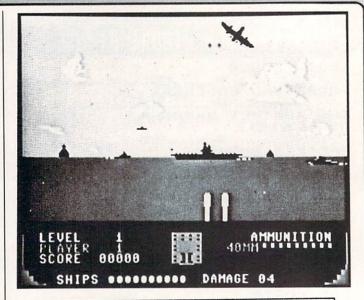
FROGGER

PAR.....(R)....(NA)......\*\*\*
AGAIN, A VERY GOOD TRANSLATION OF A POPULAR ARCADE GAME.

BEACH-HEAD

ACC.....(D).....34.95.....\*\*\*

FIRST-RATE NAVAL BATTLE SIMULATION WITH MULTIPLE SCREENS. SMOOTH 3-D MACHINE-LANG. ARCADE-QUALITY ANIMATION AND SOUND. (SEE 'GALLERY' - ISSUE #2)



### BEAUTH HEAD

REPTON

SIR........(NA).......39.95.......\*\*\*\*
A FIRST-RATE DEFENDER TYPE GAME! M.L. OF COURSE. GREAT ACTION, ANIMATION, SOUND, AND PLAY FEATURES.

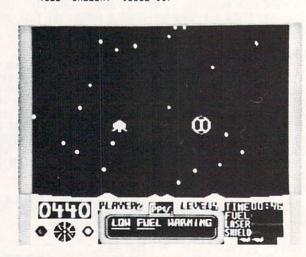
BRISTLES

(SEE 'GALLERY' ISSUE #3)

HE BALL'S REVENGE
TOL...(D)...29.95.....\*\*\*
ENGAGING LOCKER-ROOM HI-JINX. BOP VARIOUS JOCKS WITH
YOUR BEACH-BALL AS THEY SCOOT ACROSS THE SCREEN. GREAT MUSIC! (THIS IS THE BEST SELECTION OF A 5-PROGRAM DISK CALLED 'QUANTUM CACHE')

(SEE 'GALLERY' ISSUE #3)
PERPLEXIAN CHALLENGER

PRG.....(D/T)....29.95.....\*\*\*
THE BEST 'FLYING THRU SPACE, LOOKING THRU THE VIEWSCREEN' GAME WE'VE SEEN. THIS NIFTY RENDITION HAS LOTS OF LITTLE GOODIES, ESPECIALLY THE CUNNING SOUND EFFECTS! EVEN THE 'GAME-OVER' SEQUENCE IS A GEM.
(SEE 'GALLERY' ISSUE #3)



PERPLEXION CHALLENGER

	METAMORPHOSIS
ARCADE & ACTION GAMES cont'd ↔	VCT
POGO JOE SCR(D)(40.00****	(SEE 'GALLERY'- ISSUE #2) PURPLE TURTLES
3-D, FULLY ANIMATED, MULTIPLE-SCREEN GAME OF THE 'Q*BERT' PERSUASION. IF YOU CAN FINISH THE 10TH SCREEN AND CORRECTLY REPORT THE WORD THAT APPEARS, YOU GET TO ENTER SCREENPLAY'S DRAWING FOR \$10,000! EVEN IF YOU DON'T GET THE CASH. YOU'LL HAVE FUN.	QUI(T)29.95***+ ENTERTAINING WELL-ANIMATED NON-VIOLENT GAME HAS YOU CROSSING A STREAM ON THE BACKS OF UNPREDICTABLE DIVING TURTLES (SORT OF LIKE 'FROGGER' IN CROSS-SECTION) (SEE 'GALLERY' - ISSUE #2) RETRO BALL
(SEE 'GALLERY' ISSUE #3)	HES(R)39.95***+ M.L. AIR-HOCKEY SIMULATION, JOYSTICKS REQ'D.
SIR(D)39.95***  BEST 3-D MAZE GAME WE HAVE SEEN/ FLOWING ANIMATION/ FREE 'WAYOUT' GLASSES!  BANDITS	PAKACUDA  CDC(T/D)19.95/23.95***+  THIS PAC-MAN CLONE WITH AN AQUATIC THEME IS WELL DONE.
SIR(D)39.95**** GOOD SPACE GAME OF THE 'GALAXIAN' GENRE.	(SEE "6ALLERY"- PREMIERE ISSUE.)  GRIDDER  MDG(D/T)24.95/19.95***
AXIS ASSASSIN ELE(D)35,00****	LASER STRIKE ISI(D/T)29.95/24.95***
SURVIVE THE WEB-SPINNING 'MASTER ARACHNID' AND RESCUE EXTRA MEN FROM ITS NEST.  MOTOR MANIA	ORIGINAL GRAPHICS ADD APPEAL TO THE FAMILIAR CRUISE, SHOOT, & BOMB THEME. (SEE 'GALLERY'- ISSUE #2)
ONE OF THE EARLIEST M.L. GAMES THAT CAME OUT FOR THE 64	FAST EDDIE SIR(D)34.95***
/ IT'S STILL FUN AFTER ALL THESE MONTHS! (SEE "GALLERY"- PREMIERE ISSUE.) FROGGER	CUTSIE GAME GETS OLD FAST. NONETHELESS, THE GRAPHICS ARE SMOOTH AND EVERYTHING WORKS.  ANNIHILATOR
SIE(D)34.95****  (SEE "GALLERY"- PREMIERE ISSUE.)  FLIP & FLOF	VET(NA)19.95*** SMART-BOMBS & BLASTERS, ANIMATION CANDY-MAN
FIR(D)(40.00****— INVENTIVE ANIMATED GAME HAS YOU HOPPING ALL OVER THE PLACE (THEN, JUST WHEN YOU GET THE HANG OF THINGS, YOU'RE SUDDENLY UPSIDE DOWN!)	STA(T)24.95***  MUNCH THRU THE FAMILIAR MAZE. M.L. W/ SCROLLING WINDOW.  USES KEYBOARD GRAPHICS.  ARCADE PAK
DEFENDER ATA(R)44.95****	COM(T)24.95*** 3 GAMES:
A CLASSIC IN THE ARCADES (I'M GLAD ATARI SPENT SOME OF MY QUARTERS ON THE R&D TO BRING THIS OUT ON CARTRIDGE	HEAD ON, ALIEN INVASION, & TARGET COMMAND. GAME PAK
FOR THE 64!), THE CONTROLS LACK THE ORIGINAL'S RESPONSIVENESS, AND LEAVE THE EARTH IN MUCH GREATER DANGER!	COM(T)14.95***  3 GAMES: DRAGON CHASE, DEFLECT, & FLIP-IT.
FORT APOCALYPSE SYN(D/T)34,95****-	ANUICUTIONAL OLUCA
TAKE YOUR JET COPTER DOWN THRU TUNNELS AND CAVE. GOOD ARCADE ACTION. BUT THE DIFFICULTY OF SURVIVING MAKES THIS GAME A BIT FRUSTRATING: JOYSTICK.	GUNVENT UNAL GAMES 45
CENTROPODS  CDC(T/D)19.95/23.95***+  CENTIPEDE THEME/ M.L. / JOYSTICK.	VENDOR CODE MEDIA PRICE RTG.  ODESTA'S "MIND OF MAN" SERIES IS NON AVAILABLE FOR THE
NEUTRAL ZONE ACC(T/D)34.95***+	64. THESE ARE ABSOLUTELY THE BEST! (MAY BE PURCHASED SEPARATELY OR TOGETHER IN A CLASSY BOX AT A REDUCED PRICE.) (INCLUDES CHESS 7.0 / ODIN / & CHECKERS 2.1).
DEEP SPACE COMBAT/ ALL M.L. HI-RES. SMOOTH SCROLLING (360 DEG.) / 3-D REALISM / GREAT SOUND EFFECTS.	HOW ABOUT A NICE GAME OF CHESS?  ODE(D)29.95****
VCT(T/D)19.95/22.95***+ ROLLING BARRELS, LADDERS. & THE FAMOUS GORILLA.	SAME ANALYTICAL FEATURES & PLAYS THRU ALL BUT THE HARDEST LEVELS OF CHESS 7.0. INCLUDES SEVERAL ON-SCREEN
ATTACK OF THE PHANTOM KARATE DEVILS!	GRAPHICALLY ILLUSTRATED CHAPTERS OF INSTRUCTION FROM PIECE IDENTIFICATION & OPENINGS TO DEVELOPMENT AND
PHA(D/T)34.95***+ LOVE THE NAME! MARTIAL-ARTS THEME/ SEND YOUR	ENDEAMES. THIS IS PROGRAMMING DESIGN, EXECUTION. AND DOCUMENTATION AT ITS FINEST!
BLACK-BELTED WARRIOR UP AGAINST DEADLY NINJAS. PUNCHES, KICKS & LEAPS CONTROLLED BY JOYSTICK/ LOOK OUR FOR ASSORTED DEADLY PROJECTILES. GOOD SPRITE ANIMATION.	(SEE 'GALLERY' ISSUE #3) CHESS 7 - O  ODE(D)
(SEE 'GALLERY'- ISSUE #2) MAN FROM N-10 / FLASHMAN	THESE GAMES DON'T JUST PLAY AGAINST YOU, THEY TEACH AND HELP YOU ANALYZE THE GAME AND YOUR PLAYING STYLE. YOU
TQL(D)19.95***+ 'MAN FROM N-10' IS A WELL-DONE 'MISSION-IMPOSSIBLE' TYPE	CAN SET UP SITUATIONS, REPLAY GAMES, SWITCH SIDES, REVEAL GRAPHICALLY WHICH PIECES AFFECT OR ARE AFFECTED
GAME. 'FLASHMAN', ON THE OTHER HAND, WELL, THINK OF IT AS A FREE GIFT.	BY OTHER PIECES, WATCH THE COMPUTER 'THINK', GET ADVICE FROM THE COMPUTER IF YOU'RE STUCK. 3 KEYS CONTROL ALL
KILLER PILLER CAS(D)	FUNCTIONS. LEVELS OF PLAY FROM BEGINNER TO MASTER.  CHECKERS 2.1
SIMILAR TO 'CENTIPEDE' WITH SOME INTERESTING TWISTS/ GOOD GRAPHICS AND SOUND (NO, THE PRICE IS NOT A	ODIN (OTHELLO)
MISPRINT).  (SEE 'GALLERY' - ISSUE #2)	ODE

## ERG-CORDIO REFERENCE CORDS

WELL, BY NOW YOU ALL HAVE YOUR ERGBOARDS, RIGHT? (NO? SEE INSIDE BACK COVER FOR DETAILS ON THE AMAZING ERGBOARD... BE THE FIRST IN YOUR USER GROUP TO OWN ONE... ORDER YOURS TODAY!) ACTUALLY YOU CAN USE THESE REFERENCE CARDS WITHOUT THE ERGBOARD (IT'S JUST

NOT AS HANDY- TAPING THEM TO YOUR MONITOR). INSTRUCTIONS: CAREFULLY REMOVE CENTERFOLD FROM STAPLES, CUT ALONG COLORED BORDERS, POSITION IN ERGBOARD REFERENCE WINDOW, USING THE ORIGINAL CARDS FOR SUPPORT (OR TAPE 'EM TO YOUR MONITOR). USE THE BLANK BACKSIDES FOR MAKING YOUR OWN REFERENCE CARDS. KEEP SENDING YOUR SUGGESTIONS FOR ERG-CARDS YOU'D LIKE TO SEE. -THE EDITOR.

# ERG-CARD FOR PAPERCLIP TO

### CARD E

( ) INDICATES SHIFTED KEY

TABS GIP .....set/clear r∕S.....tab N.....set/clear numeric Cars....tab numeric CIPICIP ... clear all

> PaperClip is a trademark of BATTERIES INCLUDED.

HAD	IADIE BLASKA
VIIK	IABLE BLOCKS
ctrl	Bdefine
ctrl)	(F)find next
ctrl	(N)empty all
ctrl	(B)fill next
ctrl)	(V)fill all
ctrl	Isave data
ctrl	(1)change filename

CIPD .....data separator

(32) .....data separator

```
HEADER / FOOTER
HDW...... H lines header to text
PHN.....header pitch
HLN... HRN...L&R header margins
■ MLO .....unlock hdr margins
ML1 .....lock header margins
FTM.....foot N lines to bottom
FLM... FRW...L&R footer margins
PFN.....set footer page number
DISK COMMANDS
L/S.....load/save
GITT J/2.....SEO load/save
```

```
CITY ( ......display error message
( ) .....disk command mode
  N(dr#):(diskname).(id).....format
  S(dr#):(filename).....scratch
  D<dest dr#>=<source dr#>.....duplicate
  V(dr#).....validate
  R(dr#): (newname)=(oldname).....rename
  C(dest dr#>=(source dr#).....copy all
  C(dr#):(dest dr#)=(srce dr#)....copy specific
A.....append
O or 1.....display directory 0 or 1
2.....display both 0 & 1
3.....load directories
GIFT 6......global copy
GIPD U.....verify
```

file

	COLUMNS
	(C)set: <b>EBC</b> or S
	ctrl(M)nove
	ctrl(S)shift/replace target
	Ctrl (D)delete
	(E)erase with blanks
	(I)insert spaces
	(R)replicate/replace
2	(=)adc
	(H)add a row
	GIPDset decimal pt.
	(A)sort
	(W)create delimiter
	(B)set delimiter
	(L)change line length

```
FILES
EP: file....external file to printer
EX: file.... external file link
LK......global file link:any
MX: file....global file link:specific
TABLE OF CONTENTS
IF: (dr#): file...open table of
              contents file
TB:entry.....to table of contents
SPELLING CHECKER
Ctrl(Y)...start
S.....skip word
skip and ignore
(3) .....replace word in text
and word to dictionary
```

# ERG-CARD FOR EASY SCRIPT

FORMAT COMMANDS NB.....comment line FS LPxx.....lines per inch PTxx.....pitch

CALMxx.....left margin RMxx....right margin MAxx.....margin backset OFxx.....nargin offset HLxx: HRxx.....head&footer margin fs VPxx.....vertical offset LNxx.....xx blank lines FPxx.....xx forced pages PLxx.....paper length

```
TLxx.....text length
LFxx.. (xx=1or0)..linefeed on or off
( CNxx.. (xx=1or0)..centering on or off
JUxx..(xx=1or0)..rt. justify on or off
RAxx..(xx=1or0)..right align on or off
SPxx...0,1,or2...line spacing
SPS.....printer pause
LK:nextfilename..file link
```

TABS (PLACE CRSR 1	ST)
TH or Vset	Horizontal
CH or Vclear one	or
ZH or Vclear all	Vertical
ZH or Vclear all Pdisplay to file with tabsend filename	with +
to indent text, reset margins	

```
OUTPUT
OKoption >P or V
     ⟨option⟩=C....continuous
              =L....linked file
              =F....fill file
              =X....multiple copies
=Dxx...xx=device number
VIDEO OUTPUT CONTROL
 □B......down
left/right scroll
jump 40 columns
jump 20 columns
return.....jump to column 1
space.....toggle fast scroll
C or V.....cont to next page
```

### OPERATIONS fil.....load file fif.....save file fil del ...delete a line ES.....erase a sentence EP.....erase a paragraph ER....erase remainder of text EA.....erase all text firs .... reset to start up -.....conditional hyphen THU.....change letter case \* . . . . . toggle sound ##. .....auto page number

HUNT/SEARCH & REPLACE
Sto enter target text, then:
MMto hunt each occurance, or
<b>33</b> eMto srch & replace all targets
use L instead of M for linked files
at "replace" prompt deletes targets

RANGE MODE  FI Rset range of text followed by:  FI Ato duplicate range  FI Dto delete range  FI Xto move range
GOTO MODE  home

f1	ACTIVATE COMMAND MODE
f2	LOAD QUOTED ITEM TO STATUS LINE
f3	FORMAT/COMMENT LINE SYMBOL
f4	DISK MODE
f5	CAPS LOCK ALPHA KEYS ONLY
f6	DECIMAL TAB SET MODE
f7	MOVE CURSOR TO NEXT TAB
f8	EASY SCRIPT-TRADEMARK PRECISION SOFTWARE LTD.

# ERG-CARD FOR PAPERCLIP TO

CARD (

FORMAT CONTROL LSM..... N lines per inch PGN..... N lines text per page PPN..... N lines paper length PTW.....pitch W char per inch P#W.....set page number SPW..... N spaces between lines VPN..... M spaces to top of text CNO or 1....centering off or on AI+/-H.....indent each paragraph JUO or 1....justification off or on RAO or 1....right alignmt off or on OFFN......offset printer output FP.....force page uncond. FPM.....force at M lines left

LNW.....print W blank lines

```
PS:cmnt.....pause printer: comment
CM:cont.....comment

M=ASCII......digit equals ASCII value
ltr=phrase....set a letter=to a phrase
```

MISCELLANEOUS		
home	goto home	
home	homegoto In 1 col 1	
5hft	r/sgoto end of text	
CTFI	E3rapid scroll	
Ctrl	load character set	
ctrl	Xquit	
Œ)	40/80 character	
r/5.	screen read	
<b>6</b> 1	caps lock	

23 rm+/-N	left marginalter lm +/-Nright marginalter rm +/-Nmargin rel (one line)
SPECI	AL PRINTING
	boldface on/off
	italics on/off
(3!/	subscripting on/off
C3 5	subscript one character
	superscrpt on/off
(5)	suprscrpt one character
751/1	underline on/off
	underline one character
	under ittle Olle Character

MARGINS

( ) INDICATES SHIFTED KEY

SEARCH e .....search and replace ......match any character .....match any alpha char .......match exactly: [the.....match "the "the" [the].....match "the" only

Shft[ S...recall search string F.....find string Ctrl H.....hunt (prev string) CIPI .....abort search

PaperClip is a trademark of BATTERIES INCLUDED.

LINES
(■Binsert mode
Ctrl+insert one line
ctrl Iinsert lines
ctrldelete one line
Eerase to text end
break with hyphen break no hyphen
Shft Spcindivisible phrase
Shftrtrn goto next line
DUTPUT
Ctrl Vto screen

CALLERS C	Tall I	
OUTP		
ctrl	to screen	
ctrl 0	to printer	, with options
	to printer	
	set orinte	
	)restart ou	
ctrl "	set for RS	-232
	send spec	character
TI W	Jload print	er tile

LINE KUNDES
Rset range using:
E3:
end with rtrn
Ctrl Ccopy/replace target
CTPD Ttransfer/insert
Ctrl Ddelete
CTPD Eerase (leave blank)
GIPD Qsave to a file
DUDACEC
PHRASES
Pset phrase using:
EB,
S (sentence), or
W (word); end with ctrn
GTCD Knove
Ctr] Kkill
Table A VICE LA LA VALLE
set and delete
(K)set and delete

LINE PANGES

## CANTELLE CALLED

# EXECUTE CHIEF CHIEF

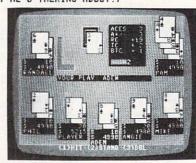
(DO-IT-YOURSELF SIDE) (DO-IT-YOURSELF SIDE)



### DOOR ABOUT A DICE CAME OF CHESS?

BACKGAMMON
DDE(D)(NA)NA  NEW FROM THE 'MIND OF MAN' FOLKS. YOU CAN EXPECT THIS TO BE THE DEFINITIVE COMPUTER BACKGAMMON PRODUCT FOR SOME TIME.
RENAISSANCE (OTHELLO)
UMI(T)29.95*** (SEE "GALLERY"- PREMIERE ISSUE)
GRANDMASTER (CHESS) UMI(I)32.95****
(SEE "GALLERY"- PREMIERE ISSUE) CASINO 64 (SLOTS & POKER) TOL
'SLOTS' IS WELL DONE WITH SMOOTH ANIMATION AND GREAT SOUND-EFFECTS. WE FOUND IT VERY CLOSE TO THE VIDEO SLOTS IN VEGAS (BOTH IN PLAY AND ODDS). 'POKER' IS A DECENT SIMULATION OF THE NEW VIDEO POKER GAMES IN THE
CASINOS.
(SEE '6ALLERY'- ISSUE #3) BRIDGE HAN(NA)39.95****
FULL COLOR / HI-RES GRAPHICS / PLAYS A SNAPPY HAND OF BRIDGE.
WORDRACE DON(D/T)24.95/19.95***+
FOR 1-4 PLAYERS/ 2000 WORDS AND DEFINITIONS/ MULTIPLE CHOICE GUESSING GAME/ WORDS, SPORTS, & FAMOUS PERSONS SECTIONS.
COMPELLO (OTHELLO) FAN(D/T)17.95/15.95NA
SARGON II
HAY(D/T)(NA)NA ONE OF THE ORIGINAL COMPUTER CHESS PACKAGES FOR MICRO COMPUTERS.
GO HAY(D/T)(NA)NA
THE CLASSIC ORIENTAL BOARD GAME.  BANDIT (SLOTS SIMULATION)
CAS
CASINO CRAPS  GPM(T)12,95NA
64 BLACKJACK DES(T)18.00NA
64 KENO
ROCKY LARUE'S CASINO
SLOTS / BLACKJACK / KENO / POKER / CRAPS / & MADAM
MAGENTA'S LOUNGE! ALL INCLUDED. BACKGAMMON
STC(T)24.00NA

64 YAHTZEE
SPRITES AND SOUND FOR UP TO 10 PLAYERS.
MONOPOLY
MYS(D/T)24.95/19.95NA KONNECT FOUR
6PM(T)10.95NA
CODEBREAKER  5TR(T)20.00NA
EUCHRE
HUT(D/T)29.95NA FOUR HANDED EUCHRE: YOU VS. THE 64- 600D LUCK!
CRIBBAGE 64
CRIBBAGE (D/T)(NA)NA
ABA(T/D)14.95/17.95NA
SEARCH SERIES T&F(T)19.95NA
FIND WORDS IN GRIDS OF LETTERS: 3 PACKAGES, FACH WITH 3
CATEGORIES: WORDSEARCH (CAPITALS/ JUMBLED/ ANIMALS) - SPORTSEARCH (PRO TEAMS/ COLLEGE TEAMS/ SPORT GAMES) -
ARCADESEARCH (HOME VIDEO GAMES/ ARCADE VIDEO GAMES/
FAMOUS VIDEO GAME CHARACTERS).
DES(T)15.00NA
SPELLATHON FAN(D/T)21.95/19.95NA
WORDLORD
WORD MATCH
SIM(NA)14.95NA
SCRAMBLERS (3 WORD GAMES) RAM(I)
NUMBER JOTTO
SIN(NA)14.95NA
CSI(NA)(NA)
"6000 QUESTIONS EXPLORE YOUR KNOWLEDGE" IN THE AREAS OF SCIENCE, SPORTS, ENTERTAINMENT, AND POTPOURRI.
CASINO SPECIAL
(VEGAS ODDS: DRAW POKER/ BLACK JACK/ SLOTS) SMX(D)29.95NA
PUZZLE MANIA
RDS(D)(NA)NA AT LAST, ON-SCREEN COLOR GRAPHICS JIGSAW PUZZLES! COMES
WITH 7 PUZZLES INCLUDED. OR CREATE VOUR OWN 14-COLOR
PICTURES AND THE PROGRAM WILL TURN THEM INTO PUZZLES (WHICH MAY BE SAVED TO DISK)! SIX LEVELS OF DIFFICULTY.
COMPETE OR COOPERATE, SAVE WORK IN PROGRESS. NEAT.
COMPETE OR COOPERATE, SAVE WORK IN PROGRESS. NEAT. PROFESSIONAL BLACKJACK
KEN USTON'S BJ TUTOR. SCR(D)(NA)NA
THE LAST WORD IN BLACKJACK SOFTWARE: DUPLICATES RULES
AND VARIATIONS FOR 70 OF THE WORLD'S CASINOS / CREATES OVER 39 MILLION PLAYING SITUATIONS / COLORFUL GRAPHICS
AND SOUND / INCLUDES EXTENSIVE CARD-COUNTING EXERCISES.
(MR. USTON WAS REPORTEDLY RAKING IN BIG \$\$\$ FROM THE
BLACKJACK TABLES AT LAST WINTER'S CES SHOW, WHEN NOT OCCUPIED WITH SOFTWARE MARKETING ACTIVITIES, SO HE MAY
KNOW WHAT HE'S TALKING ABOUT!)



PROFESSIONAL BLACKJACK

### CONVENTIONAL GAMES (CONT'D)

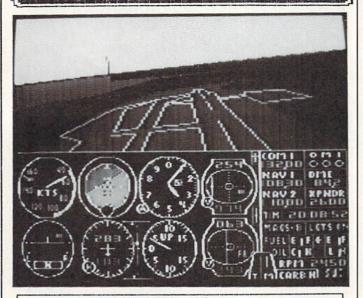
TOPUZZLES (SIX AVAILABLE)

PZL.....(NA).....11.95 EACH......NA
EACH IS A SET OF ENCRYPTED MESSAGES WHICH YOU MUST
DECODE BY WRITING PROGRAMS THAT WILL BREAK THE CODE.

CASINO ROULETTE

POR...(D/T)....19.95.....NA
SOUND, COLOR, GRAPHICS. BOARD DISPLAY SHOWS CHIPS
PLACED / AMERICAN OR EUROPEAN STYLE RULES / MULTIPLE PLAYERS.

## RATEGY & SIMULATION GAMES



### FLICHT SIGULATOR III

PRODUCT NAME VENDOR CODE

MEDIA PRICE RTG.

FLIGHT SIMULATOR II

181 CHEROKEE ARCHER, OR FLY INTO A WORLD WAR I DOGFIGHT. INCLUDES BO AIRPORTS IN N.Y., CHICAGO, SEATTLE, AND L.A./ ADJUSTABLE WEATHER CONDITIONS/ COMPLETE L.A./ ADJUSTABLE INSTRUMENTATION.

COMBAT LEADER

TO CREATE YOUR OWN SCENARIOS. SIMPLE OR VERY ELABORATE VERSIONS MAY BE PLAYED.

DRAGONRIDERS OF PERN

..(D).....(40.00... BASED ON THE POPULAR ANNE MCCAFFREY FANTASY NOVELS. YOU ARE ONE OF THE WEYR LEADERS, RIDING YOUR DRAGON, FIGHTING THE DEADLY 'THREAD' AND MANEUVERING THRU THE DELICATE POLITICS OF THE LORD HOLDERS. (SEE 'GALLERY'- ISSUE #3)

DR. J & LARRY BIRD GO ONE-ON-ONE.

(& EASY ON THE BACK-BOARD... IT'S BREAKABLE!)

(FLIGHT SIMULATOR) IFR

ACA...(D/T)....29.95....\*\*\*
THIS FLIGHT SIMULATOR, WHILE LACKING A TERRAIN VIEW,
DETAILED FUNCTIONALLY WITH APPARENTLY ACCUR INSTRUMENTATION AND RESPONSES (I'M NO PILOT SO HOW DO I KNOW?). YOU GET RATED FOR YOUR PERFORMANCE LANDING AT VARIOUS AIRPORTS. (MAKE SURE YOU'VE GOT THE LANDING SEAR DOWN!)

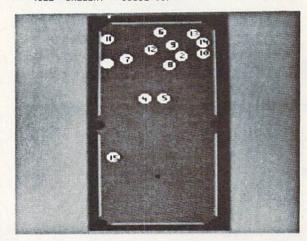
(SEE 'GALLERY' - ISSUE #3)

SOLO FLIGHT

MPS.....(D/T).....34.95.....\*\*\*
GREAT-LOOKING REAL-TIME LIGHT AIRPLANE SIMULATION. 3-D
TERRAIN GRAPHICS, MULTIPLE AIRPORTS, VARYING CONDITIONS,
FULL INSTRUMENTATION, AIR-MAIL GAME MODE, VFR & IFR FLYING.

POOL 64

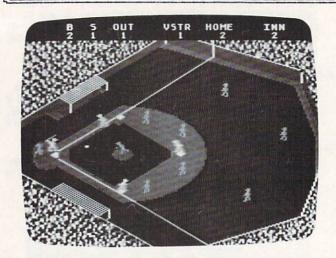
ABA.....(D/T).....17.95/14.95.....\*\*\*\*PRETTY NICE POOL SIMULATION. AIMS & SHOOTS WITH
KEYBOARD / REALISTIC PHYSICS
(SEE 'GALLERY'- ISSUE #3)



### POOL OS

STOCK MARKET SIMULATION
WALL STREET
TMW(T/D)24.95NA
FUR TRAPPER
BRI(T)14.95NA
HIGH SEAS
BRI
HELLCAT ACE
MPS(R/T)29.95NA
3-D COMBAT FLYING SIMULATION.
WINGMAN / MIG ALLEY ACE
MPSNA
*PLAYER VS. PLAYER, HEAD TO HEAD, SPLIT SCREEN 3-D
COMBAT FLYING SIMULATIONS
JURY TRIAL
NAV(NA)29.00NA
YOU ARE THE PROSECUTOR/ THE COMPUTER IS THE JURY/
THOUSANDS OF CASES POSSIBLE IN THIS COURTROOM
SIMULATION.
EAGLES
STR
FLY THE CLASSIC WAR-PLANES. OR DESIGN AND FLY YOUR OWN
CHAMPIONSHIP GOLF
HAY(D/T)(NA)NA
RINGSIDE SEAT
STR(D)39.95NA
SEMI-ANIMATED BOXING SIMULATION- ARRANGE THE MATCH-UPS
OF THE CENTURY, SEE WHO WOULD HAVE WON.
NATO COMMANDER
MPS
ON-SCREEN SCROLLING EUROPEAN WAR MAP / REAL-TIME / FIVE
SCENARIOS / NEWS SERVICE UPDATES / YOU COMMAND INFANTRY,
MECHANIZED ARMOR AND HELICOPTERS
MECHANIZED ARMOR, AND HELICOPTERS.

## STRATEGY & SIMULATION CONT O 🕀



### STAR LEAGUE BASEBALL

STAR LEAGUE BASEBALL  GAM(D)(NA)NA  IMPRESSIVE LOOKING PHOTOS SUGGEST A CONVINCING 3-D  EFFECT SIMULATION. ALSO PROMISSED SOON ARE FOOTBALL AND TENNIS.
PANZER-JAGD (TANK HUNT)  AHG(D)25.00NA  WHII EASTERN FRONT GRAPHIC WAR GAME.  T. A. C.
AHG(D)40.00NA TACTICAL ARMOR COMMAND IN MORLD WAR II. HI-RES GRAPHICS & SOUND. FIVE SCENARIOS. CONTROL EIGHT VEHICLES, GUNS, & SQUADS SIMULTANEOUSLY.
COMPUTER STOCKS AND BONDS  AHG(D)20.00NA  PLAY THE STOCK MARKET (WITH THE COMPUTER'S MONEY).
SILICON WARRIOR  EPY(D)(40.00NA  3-D CHESS-LIKE ACTION/STRATEGY GAME, GOOD GRAPHICS.  KENTUCKY DERBY
SIM(NA)19.95NA 64 FINANCE DES(T)20.00NA

## GAMES COLLECTIONS



64 COLLECTION (#1 - #8)
PUB.....(T/D)......10.00 EACH.....\*\*\*+
AN EXCELLENT VALUE: AT LEAST 25 PROGRAMS PER DISK OR
TAPE.

## TEXT ADVENTURE GAMES

PRODUCT NAME VENDOR CODE

MEDIA

PRICE

RTG.

===>> THE INFOCOM ADVENTURE SERIES ARE THE LEADING TEXTBASED ADVENTURE GAMES. THEY ALL INCORPORATE A VERY
POHERFUL LANGUAGE INTERPRETER (PARSER) HHICH HAS A
VOCABULARY OF ABOUT 600 HORDS. ALLOWING INPUT OF HHOLE AND
MULTIPLE SENTENCES INCLUDING ADJECTIVES (IE: TAKE THE ROUGH
OBJECT AND THE LONG DEVICE. PUT THE OBJECT AND THE DEVICE
IN THE OPEN CONTAINER.). THIS IS VERY IMPRESSIVE TO
EXPERIENCE AND GIVES AN UNCANNY SENSE OF INTELLIGENCE IN
THE NACHINE. (INFOCON ENPHASIZES THAT GRAPHICS HAVE BEEN
DELIBERATELY ONITTED TO ENHANCE THE USE OF THE INAGINATION.
HE FEEL IT IS MORE LIKELY DUE TO THE DIFFICULTY & EXPENSE
OF HRITING GRAPHICS ROUTINES FOR THE HIDE NUMBER OF SYSTEMS
HHICH THEIR GAMES HILL RUN ON HON. HE FEEL THAT SINPLE
GRAPHIC ON-SCREEN MAPPING HOULD AD TREMENDOUSLY TO THESE
OTHERHISE EXCELLENT GAMES AND MAIL A 5-STAR RATING TO
BOOT!)

(\$ NOTE: MANY OF THE INFO-DESIGNS GAMES ARE NOW AVAILABLE UNDER THE COMMODORE LABEL AT LOWER PRICES AND IN LESS ATTRACTIVE PACKAGING.)

DEADLINE
INF.....(D)......39.95.....\*\*\*\*+
YOU ARE THE DETECTIVE SOLVING A MURDER IN THIS EXCITING ADVENTURE. VERY REALISTIC CHARACTERS WITH DISTINCT PERSONALITIES
SUSPENDED

INF.....(D).....39.95.....\*\*\*\*+

(SEE "GALLERY"- PREMIERE ISSUE.)

ZORK-I (ALSO II & III)

INF......(D)......39.95.EACH.....\*\*\*\*
THE ORIGINAL ADVENTURE CLASSIC (AND 2 SEQUELS).
STARCROSS

INF......(D)......39.95.....\*\*\*\*
SCIENCE FICTION THEME.
INFIDEL/ ENCHANTER
THE WITNESS/ PLANETFALL
SORCERER/ CUTTHROATS/

INF......(D)......39.95 EACH......NA
MORE "INTERACTIVE FANTASIES" FROM THE COMPANY THAT WROTE
THE BOOK ON INTERACTIVE FANTASY.

DUNGEONS OF DEATH / ESCAPE FROM MARS / PYRAMID

AAR.....(D/T).....19.95/14.95.EA.....NA
TREASURE PAK:
(ADVENTURE / CAVES OF SILVER / SHUTTLE VOYAGE)

CARNAC CAVERNS LIT.....(NA)....(NA).....

WHO-DUN-IT/BANSHEE CASTLE

RAM.....(NA).....19.95 EA.....NA
ADVENTURE PAK 1:
(JACK AND THE BEANSTALK / COMPUTER ADVENTURE / MOON BASE

(JACK AND THE BEANSTALK / COMPUTER ADVENTURE / MOON BASE ALPHA
VCT......(D/T).....22.95/19.95.....

VCT.....(D/T)....22.95/19.95....NA
ADVENTURE PAK 2:
(AFRICAN ESCAPE / HOSPITAL ADVENTURE / BOMB THREAT)
VCT.....(D//T)....22.95/19.95....NA

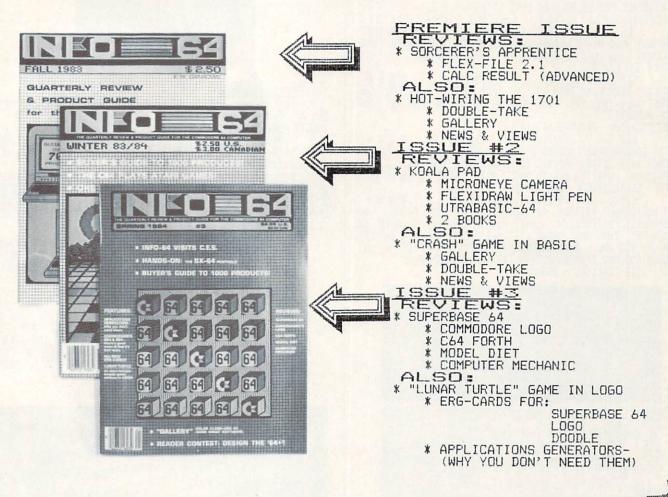
## GRAPHIC ADVENTURE GAMES

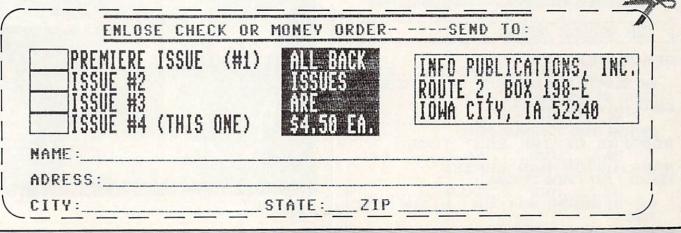
MURDER ON THE ZINDERNEUF

ELE.....(D)......40.00......\*\*\*
LIKE STARRING IN A DETECTIVE NOVEL INSTEAD OF JUST
READING IT. THERE IS A DIFFERENT CASE TO SOLVE EACH
TIME, AND YOU CONDUCT THE INVESTIGATION YOUR WAY.

# BACK ISSUES!

WHILE SUPPLIES LAST !!!





## (HUNTED)

PRICE

VENDOR CODE

MEDIA

RTG.

TEMPLE OF APSHAI (SEE "GALLERY"- PREMIERE ISSUE.)
UPPER REACHES OF APSHAI
CURSE OF RA

EPY......(D/T).....19.95/10.95.....\*\*\*
EXPANSION MODULES FOR "TEMPLE" ABOVE.

SWORD OF FARGOAL

EPY. (D/T). 29.95. \*\*\*
"JUNIOR" VERSION OF TEMPLE GAMES. SIMPLER COMMAND
INTERFACE FOR YOUNGER OR LESS PATIENT PLAYERS. GOTHMOG'S LAIR (SEMI-GRAPHIC)

INSTITUTE

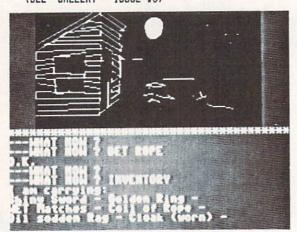
SCR.....(D).....29.95......\*\*\*
YOU'VE BEEN COMMITTED AGAINST YOUR WILL. IF YOU CAN
JUST TALK YOUR WAY, FIND YOUR WAY, OR CLAW YOUR WAY OF HERE!!!

UNICORN ADVENTURE

LGN.....(D/T).....29.95......\*\*\*+

6TH GRADER DAWN LOGGINS & HER HOM WROTE AND NOW MARKET THIS INTERESTING GRAPHIC ADVENTURE CONCERNED WITH A BABY UNICORN. WRITTEN ALL IN BASIC WITH CHARACTER GRAPHICS.

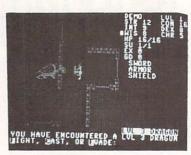
THE GOLDEN BATON CDC.....(D).....27.95. A NOTICEABLY BRITISH ADVENTURE (WITH ITS PETROL AND SPANNERS) INTERESTING SCENES WITH A SORT OF 'GRAPHICS ON DEMAND', THAT ONLY DRAWS PICTURES WHEN YOU WANT TO SEE WHERE YOU ARE. ONLY PROBLEM IS, THE DRAWING IS A BIT SLOW AND MAY FRUSTRATE LESS PATIENT ADVENTURERS. (SEE 'GALLERY' - ISSUE #3)



### THE COLDEN BATON

GRAVE ROBBERS VCT(T)14.95***
NOW INCLUDES A BONUS GAME WHICH YOU CAN ACCESS UPON
SOLVING THE ADVENTURE.
GATEWAY TO APSHAI
EPYNA
CARTRIDGE SEQUEL TO "TEMPLE" SERIES.
ROBBERS OF THE LOST TOMB THN(T/D)24.95N.A.
WARRIOR OF RAS SERIES
(DUNZHIN / KAIV / WYLDE / ZIGGURAT)
INS
REAL-TIME ADVENTURES IN M.L. WITH HI-RES COLOR GRAPHICS.
SOUND.

GYPSUM CAVES
ADI
THE WIZARD'S TOWER
AAR(D/T)19.95/14.95NA
MOUNTAIN KING
CBS(NA)(NA)NA
TELENGARD AH6(D)23.00NA
REAL-TIME FANTASY ROLE-PLAYING GAME. MONSTERS & MAGIC
ABOUND.



### TELENGARD

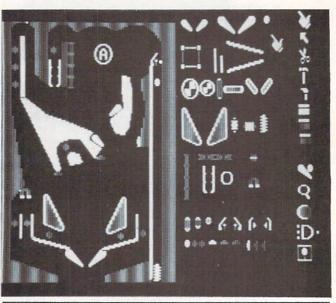
S.A.G.A. SERIES (SCOTT ADAMS GRAPHIC ADVENTURE)

THESE HI-RES GRAPHICS ADVENTURES ARE COMPATIBLE WITH THE VOTRAX VOICE SYNTHESIZER (ENABLING THEM TO TALK!).

PINBALL CONTRUCTION SET

ELE.........(D)..........40.00...... INFO-64'S CHOICE FOR BEST RECREATIONAL SOFTWARE OF 1983. MUCH MORE THAN A GAME. YOU CAN BUILD ALMOST ANY PINBALL GAME YOU CAN IMAGINE USING A SUPER PARTS BOX OF COMPONENTS, THEN 60 TO A SCREEN THAT LETS YOU CONTROL GRAVITY, REBOUND STRENGTH ETC. NEXT, YOU CAN GRAPHICALLY HOOK UP THE TARGETS AND SOUND EFFECTS FROM A GRAPHIC WIRING DIAGRAM SCREEN. FINISHED GAMES MAY BE OFF-LOADED TO DISK AND RUN INDEPENDENT OF THE ORIGINAL PROGRAM. COMES WITH SEVERAL PRE-DESIGNED GAMES FOR INSTANT PLAY. WE WANT TO SEE MORE OF THIS GOLD FROM BILL BUDGE!

(SEE 'GALLERY'- ISSUE #3)



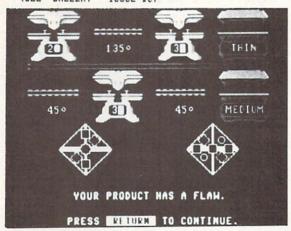
PINEAUL CONSTRUCTION SET

## OTHER RECREATIONAL (CONT'D)

UNUSUAL GAME WHICH CREATES MUSIC AND PLEASING GRAPHICS
IN SEARCH OF THE MOST
AMAZING THING

SPIN.....(D).....39.95.....NA
ANOTHER UNUSUAL GAME WHICH EXPOSES CHILDREN TO
PROBLEM-SOLVING (WITH ALIENS), ECONOMICS, NAVIGATION,

THE FACTORY PROBLEM-SOLVING. VISUALIZATION, AND SPATIAL COMPREHENSION. PLAYERS MUST USE A VARIETY OF MACHINES TO CREATE SIMPLE TO COMPLEX PARTS. (I JUST WISH THERE WERE A FEW MORE OF THE DELIGHTFUL ANIMATED MACHINES) (SEE 'GALLERY'- ISSUE \$3)



### THE FOCTORY

UP FOR GRABS

SPI......(R)......34.95.......\*\*\*
FUN CROSSWORD-TYPE PUZZLE FOR UP TO FOUR PLAYERS OF VARIOUS AGES AND SKILLS. JOYSTICKS OR PADDLES. 600D GRAPHICS.

LITTLE RED RIDING HOOD

PLA.....(D).....29.95.....\*\*\*

ONE OF A SERIES OF BEDTIME STORIES. REQUIRES 'EDUMATE LIGHT PEN'. FEATURES SOFTWARE-SYNTHESIZED VOICE (FROM FREDDY THE FROG AKA "S.A.M."- THE SOFTWARE ANIMATED MOUTH.)

(SEE 'GALLERY'- ISSUE #3)
M-SS-NG L-NKS

SNB...(D).....39.95......\*\*\*

A PAGE OF TEXT (81 CHOICES) FROM POPULAR LITERATURE
APPEARS WITH MISSING LETTERS (9 SKILL LEVELS). AS THE
PLAYER FILLS IN BLANKS WITH LETTERS AND THE PASSAGE
UNFOLDS. WRITING, READING, SPELLING, GRAMMAR, AND
COMPREHENSION SKILLS ARE PAINLESSLY ABSORBED AND
SHARPENED. SEE YOUR LIBRARY FOR THE REST OF THE STORY.

PERPLEXITY

DAB......(D/T)......29.95...... A SERIES OF CLASSIC 'THINKING PUZZLES' THE BEST OF WHICH IS 'ELECTRO-CONNECTION' WHICH HAS YOU TRYING TO ROUTE 'WIRING' ACROSS THE SCREEN WITHOUT CROSSING OVER YOURSELF (LIKE CIRCUIT DESIGN).

(SEE 'GALLERY' - ISSUE #3)

FLOWER POWER

SOW......(D)......19.95.......\*\*\*+
WHILE WORKING ON YOUR VARIOUS AREAS OF MATH. YOU WILL BE GROWING A COLORFUL GARDEN OF FLOWERS (WRONG ANSWERS GROW WEEDS)

(SEE 'GALLERY' - ISSUE #3)

THE POND

SNB....(D)....39.95....\*\*\*+
GETTING YOUR FROG ACROSS THE POND STIMULATES
EXPERIMENTATION AND VISUAL REASONING.

FRACTION FEVER

SPI.....(R)......34.95......\*\*\*+
HOP YOUR POGO STICK ONTO THE RIGHT FRACTION SQUARES, AND
AN ELEVATOR WILL LIFT YOU UP TO HIGHER (AND MORE
DIFFICULT) LEVELS. GUESS WRONG AND YOU MAY BE IN FOR A

(SEE 'GALLERY' - ISSUE #3.) THE TRIVIA ARCADE

SCR.....(D)......34.95......\*\*\*
3500 QUESTIONS IN 5 CATEGORIES (ADDITIONAL QUESTION PACK
AVAILABLE @ \$9.95). INTERESTING ARCADE SCREEN IDEA FOR
CHOOSING QUESTION CATEGORIES. UP TO 4 PLAYERS.

LEARNINGWARE

WIZARD OF WORDS/THE GAME SHOW (ETC.) CARD OF MORDS/THE GAME SHOW (ETC.)

CAI. (D). (NA). (NA).

COMPREHENSIVE-SOUNDING LINE OF EDUCATIONAL SOFTWARE: ALL
INCLUDE COLOR ANIMATION. BUILT-IN LIBRARY OF SUBJECTS.
AND AUTHORING FEATURES FOR INDIVIDUAL TAILORING. FREE
BACKUP DISK & GUARANTEED. (WE ARE INTRIGUED WITH THE
GAME-SHOW FORMAT OF THREE OF THESE PACKAGES- THE STUDENT
BECOMES A GUEST ON A TV GAME SHOW PRESUMABLY MASTERING
THE SUBJECT IN THE COURSE OF PERFORMING WELL ON THE 'TV
SHOW'- SOUNDS LIKE A GREAT APPROACH!)

PINBALL MATH

TAY......(D/T).....24.95/19.95......NA

DIG.......(T/D).....14.95/19.95.....NA
YOUR CHOICE OF GENERAL & MOVIES / SCIENCE & HISTORY / LITERARY & QUOTATIONS.

EARLY GAMES SERIES

CSI....(?)....(NA).......NA

FUN LEARNING ACTIVITIES FOR 2 1/2 TO 12 YRS. THESE USE
PICTURE MENUS AND GRAPHICS AND COVER SHAPE. NUMBER, & LETTER EXPOSURE/ MUSIC/ ELEM. MATH/ FRACTIONS ETC.

MICRO HABITATS

LITTLE PEOPLE'S PUZZLES ALPHABET BEASTS

. (NA) ... RDS.....(D)..... SOME OF THE INTERESTING-LOOKING SOFTWARE COMING OUT OF READER'S DIGEST FOR KIDS. WHAT WE HAVE HERE ARE PUZZLES. A CREATIVE CONSTRUCTION SET, AND 'KOOKY, UNSPOOKY' ALPHABET CRITTERS / ALL WITH COLOR, SOUND, ANIMATION, AND MUSIC.





THE TOY BOX

M&M.....(D).....34.95.....NA
COOPERATIVE PLAY ENVIRONMENT OFFERS DRAWING, AND
GAME-PLAYING TO TEACH COOPERATION AND COMMUNICATION
SKILLS AS WELL AS ABC'S NUMBERS, WORDS, SHAPES & PATTERNS.



CBM(D)(50.00	* *	* * *
A NO-CONTEST BEST BUY, AND PROBABLY THE FINEST		
SOFTWARE TO BEAR THE COMMODORE LABEL TO DATE.		
(SEE REVIEW- ISSUE #3 )		
VANILLA PILOT		
TAM(D/T)29.95	* *	*+
PILOT II		
TAM(D)49.95		NA
ENHANCED VERSION OF VANILLA PILOT: 25 EDITING	COMM	ANDS.
29 TURTLE GRAPHIC COMMANDS, AND 23 PROGRAM	COMM	ANDS/
SIMPLIFIED ROUTINES FOR SPRITES, HIRES, & SOUN	D/	MIXED
TEXT AND HI-RES TURTLE GRAPHICS/ INTEGRAL SPRIT	E ED	ITOR.

CML.....(D).....19.95..... (SEE REVIEW OF THIS INTERESTING LANGUAGE ELSEWHERE THIS ISSUE.)

C64 FORTH PER....(D)......99.95......\*\*\*\*

FORTH 79 WITH EXTENSIONS, FULL SCREEN EDITOR AND ASSEMBLER, SUPPORTS HI-RES, CHARACTER, AND SPRITE GRAPHICS, SOUND CAPABILITIES, FULL I/O, IEEE AND BASIC DATA FILE COMPATABILITY IN ANNUAL WITH EXAMPLES OF BASIC TO EDUTE COMPATABILITY TO SERVE THE COMPATABILITY THE CO

TO FORTH COMVERSIONS, TRACE FOR DEBUGGING. (SEE REVIEW- ISSUE #3)

FULLFORTH+

CGR.....(D).....100.00.....NA
ENHANCED FIG FORTH: STRINGS, FLOATING POINT, EDITOR.
COND. ASSEMBLER, INTERPRETER. TARGET COMPILER ABLE FOR 50.00.

FORTH

MIN.....(D/T).....37.95....NA
FIG-FORTH WITH ASSEMBLER / EDITOR / FLOATING POINT /
GRAPHICS / SOUND / TUTORIAL / SUPPORT. ( ALSO ABLE ARE TWO TUTORIALS FOR \$13 EA.: GAMES, GRAPHICS, AND SOUND / ARTIFICIAL INTELLIGENCE.)

SUPER FORTH 64

MACRO ASSEMBLER/ SUPPORTS ALL I/O AND 64 PERIPHERALS.

64 FORTH

HES.....(R).....59.95.....NA
FIG-TYPE IMPLEMENTATION WITH FULL-SCREEN EDITOR AND HORIZONTAL-SCROLLING WINDOW.

TRI FORTH

TRI......(?).....(NA).....NA TINY  FORTH 64

HAN.....(R).....39.95.....NA
INCLUDES TEXT EDITOR AND MACRO ASSEMBLER. PRINTER AND DISK I/O SUPPORTED.

KMMM PASCAL

CGR.....(D).....85.00.....NA
.TRUE COMPILER THAT GENERATES MACHINE CODE FROM PASCAL SOURCE...EDITOR, COMPILER, TRANSLATOR INCLUDED.

ABA.....(D).....39.95.....NA
PRODUCES 6502 MACHINE CODE/ FEATURES: FLOATING POINT, INTEGERS, STRINGS, FILE HANDLING, OXFORD PASCAL

LIM......(D/T)......49.95/29.95......NA
5 TO 20 TIMES FASTER THAN BASIC, THIS IMPLEMENTATION OF

PASCAL SUPPORTS GRAPHICS AND SOUND.

Z-80 VIDEO PAK WITH CP/M DAT......(R&D).....299.95......NA

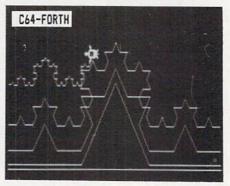
NEVADA COBOL CBM.....(D).....(60.00.....NA

REQUIRES USE OF CP/M CARTRIDGE.

CP/M 2.2

..(R)......NA NEVADA FORTRAN CBM......(D)......(50.00......NA

REQUIRES USE OF CP/M CARTRIDGE (ABOVE).



### 

THE FOLLOHING THO PROGRAMS ARE UNUSUAL IN THAT, WHILE HE RESPECT THE EFFORT, QUALITY, CARE, (AND PRESUNABLY SINCERITY) THAT HAVE GONE INTO THEN, HE ARE OF THE OPINION THAT THIS TYPE OF SOFTHARE (AS GOOD AS IT SOUNDS ON PAPER) IS FUNDAMENTALLY A WASTE OF THE CONSUMER'S TIME AND MONEY. THUS THE FOUR STAR RATING FOR PRODUCT QUALITY, ALONG HITH OUR RECOMMENDATION TO APPLY YOUR NONEY AND ENERGY ELSENHERE (IE: TONARD A GOOD DATABASE MANAGER PRODUCT).

(SEE 'WHY YOU DON'T NEED AN APPLICATIONS GENERATOR' IN ISSUE #3 FOR ADDITIONAL ELABORATIONS.)

### 

CODEWRITER

DYT.....(D).....(NA).....\*\*\*
WRITES FINISHED STAND-ALONE APPLICATIONS IN BASIC. 'WORK
IN PLAIN ENGLISH...DRAW ANY SCREEN LAYOUT, ADD ANY
CALCULATIONS...OR HELP MESSAGES YOU NEED...CODEWRITER WRITES ALL THE BASIC CODE.

LATER VIA EXPANSION SOFTWARE.

<b>EXTENSIONS</b>	TO '	BASIC'	介
PRODUCT NAME VENDOR CODE	MEDIA	PRICE	RTG.
RE-DEFINE KEYS/	AUTO &	95.00 FEATURES: FAS RE-NUMBER/ TR	RIF MERGES!
FIND-CHANGE WITH TRACE MODES TO N SUITABLE FOR THE KNOW SEVERAL PEO	WILD-CARDS AME A VER CASUAL USE PLE WHO USE DS AND FUN	6/ SPACE AND REM RY, VERY FEW. ER DUE TO COMPLEXI E ONLY THREE OR F ICTIONS AND FEEL	REMOVAL/ 3 MAY NOT BE ITY (THO WE
ADDS DOZENS OF CORENUMBER, ETC.  ULTRABASIC	OMMANDS LIN	KE: MERGE, SEARCH	AND REPLACE,
ADDS 50 COMMANDS TURTLE COMMANDS. PRINTERS.	TO BASIC I	42.95/39.95 INCLUDING GRAPHICS SCREEN-DUMP ROUTI	. MUSIC. AND
GRAPHDOS	(D)	39.95	NA
ADDS 12 DOS COMM LO-RES GRAPHICS INCLUDES 20-COMM BASIC AID	ANDS / 11 H COMMANDS / AND MINI-MO	HI-RES GRAPHICS CO & 12 MISC. COMMAN DN.	DMMANDS / 5 NDS TO BASIC.
DISK UTILITIES	INCLUDE: F ACT/ PROGF REF.	29.95 RENUMBER/ SEARCH RAM MERGE/ LINE	& REPLACE/
ADDS OVER 20 COMPLOTTING POINTS MULTI-COLOR MED. SIMON'S BA	(D/T) MANDS TO BA , MANIPULA -RES. MODES ISIC	27.95/24.95 ASIC FOR DRAWING L ATING SPRITES.	INES, BOXES, HI-RES &
THIS CARTRIDGE IS FIND. THOSE WHO THINGS TO SAY ABO HI-RES / STRUCTUS PROGRAMMING AIDS	S IN LIMITE HAVE FOUNI DUT IT: AI RED PROGRAP SECTIONS.	(NA)ED PRODUCTION, E O A COPY HAVE LO ODS 114 COMMANDS MING / MUSIC CO	BUT HARD TO DTS OF GOOD TO BASIC.
D.A.M. (DI	. (D)	CESS MANA 99.95 DISK-ACCESSING:	NA
SEQUENTIAL ACCES RECORDS/ DIRECT A TO 256 BYTES/ MUL 32,000 BYTES/ 65,	SS WITH FACCES BY RELITIVE IND. OOO RECORD CAPACITY/ LER. & OTHE	IXED AND VARIA CORD #/ INDEXED A ICES PER FILE/ PER FILE/ MULTI FILE UTILITIES/	BLE LENGTH CCESS/ KEYS RECORDS TO PLE VOLUMES
ADDS: BASIC 4.0 C COMMANDS/ ADDS "E BASIC AID	COMMANDS/ A B"-SERIES B		HICS & SOUND
ADDS 33 COMMANDS MERGE, MOVE, HEX GRAPHICS B	& TO BASI & BINARY C		ND, CHANGE,
SUPPORTS HI-RES SPRITES & MUSIC. HESKIT 64	GRAPHICS	49.95 , SPLIT-SCREENS	, WINDOWS,
ADDS 22 SINGLE- EXTENSIONS TO BAS	STROKE E	49.95DITING COMMANDS NG AUTO NUMBERING EDEFINITION OF KE	PLUS 30 SEARCH &

MASTER-64
ABA(D)84.95NA ADDS NEARLY 100 COMMANDS TO BASIC COVERING: SCREEN MANAGEMENT, ISAM FILE MANAGEMENT, PRINTER, BASIC 4.0, MACHINE LANGUAGE MONITOR, DIRECT DISK ACCESS, 22 DIGIT PRECISION MATH, DATE CONTROL, AUTO & RENUMBER, PRINT USING, TRACE, ETC. 160 PG. MANUAL.
[COMPILERS 也]
PETSPEED
LIM
INSTA-SPEED 29.95NA
CIMNA
· [
[PROGRAMMING ENVIRONMENT 🔱]
MAE (MACRO ASSEMBLER EDITOR)
EAS(D)
SUPPORTS STANDARD MOS MNEMONICS.  DECMON
EDIT & INSPECT CONTENTS OF MEMORY. CONVERT BETWEEN FOUR NUMBER BASES.  MACROFIRE EPI(?)
70-COMMAND SCREEN EDITOR/ 3-PASS ASSEMBLER WITH MACKU- 1000+ LABLES/ M.L. MONITOR.
PTD-6510 PTE(D)65.10NA ADVANCED DEBUGGER: STEP, BREAKPOINTS, WINDOWING. SUPER COMPLEX CONDITIONAL BREAKS, SYMBOLIC DEBUGGING, PATCH, SHOW PRIOR 128 STEPS, COMPILED BASIC-LIKE LANGUAGE 6502/6510 PROFESSIONAL
DEVELOPMENT SYSTEM  HES(T)29.95NA  ONE- OR TWO-PASS ASSEMBLER USING STANDARD MOS MNEMONICS
AND OPERAND FORMATS.  HESMON 64  HES(R)39.95NA
6502/6510 M.L. MONITOR WITH MINI-ASSEMBLER. MINI-MON
INT(T/D)24.95NA DEVELOP 64 FRE(D/T)59.95/54.95NA

## PROGRAMMING ENVIRONMENT (CONT'D)

BY STE	Æ	BOLGER	COPY	RIGHT 1983
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240 2000	A9		LDA	#\$04
2. 1 2001	214			
2002 262	8D		STA	SCRNCLR
2003 253	21			
2004 2004	3			
2005 2005	3		RTS	
2006 2006	A9	TSTPROG	LDA	#\$>TSTPROG
2007 2007	FF	4		
2008 2008	48		PHA	
2009 2009	A9			#\$ <tstprog-1< td=""></tstprog-1<>
200A 200A	FF		5	
200B 200B	20		JSR	TSTPROG-6
200C 200C	FF			6
200D 200D	FF			
200E 200E	2121		BRK	
_10				
A DE	ORIO	SIN A.O!	2999	END A)9. 3FFF

(ALSO AVAILABLE ON EPROM FOR OWNERS OF GLOUCESTER'S 'PROMQUEEN' € \$39.00)

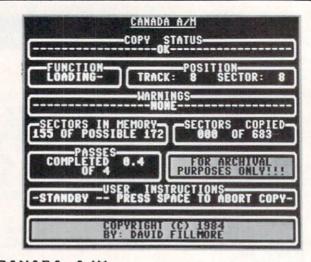
CODEFAX 8085 & 6800 CROSS ASSEMBLERS

GLO......(D)......(NA)......NA
COMING SOON: TWO 'CODEFAX' CROSS-ASSEMBLERS WILL LET YOU
USE THE C64 FOR DEVELOPING CODE FOR OTHER PROCESSORS

## BACKUP & COPY SOFTWARE 🔫

COB......(D)......49.95......\*\*\*

EASY-TO-USE, MENU-DRIVEN FAST BACKUP PROGRAM COPIES VIRTUALLY ALL DISKS, INCLUDING ALMOST ANY COMMERCIAL PROGRAM AVAILABLE FOR THE 64. UNIQUE FEATURE: CAN BE USED TO PUT A SOFTWARE WRITE PROTECT ON YOUR OWN DISKS (INSTEAD OF THOSE LITTLE ADHESIVE TABS.)



SKY.....(D).....39.99.....\*\*\*

THIS IS AN EASY TO USE BACKUP SYSTEM THAT MILL BREAK MUCH OF THE COPY-PROTECTION IN USE. INFORMATIVE ON-SCREEN STATUS READOUTS, USER SIMPLY SWAPS DISKS WHEN PROMPTED, CANADA A/M DDES THE REST (A NEW VERSION IS ON THE WAY THAT PROMISES TO DO SINGLE DRIVE BACKUPS IN UNDER 3 MIN.).

RAD.....(D)......45.95......\*\*\*

FAST COPIES, AND WORKS MITH SINGLE, TWO SINGLE, OR DUAL DRIVES. GEMERATES GRAPHIC DISPLAY OF TRACK & SECTOR ACTIVITY WHILE PROCESSING. CRACKS MOST ALL COPY-PROTECTIONS. CAN ALSO RECOVER DAMAGED DATA AND FILES

INFO-64 DOES NOT CONDONE
UNAUTHORIZED COPYING OF SOFTWARE
WHETHER FOR PROFIT OR FUN.
WE DO. HOWEVER, SUPPORT
THE SOFTWARE PURCHASER'S RIGHT
TO HAVE PERSONAL BACKUPS
OF VALUABLE SOFTWARE. AND TO THAT END
LIST THE FOLLOWING COMMERCIAL PROGRAMS
WHICH PROVIDE THIS CAPABILITY TO VARYING DEGREES.

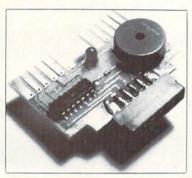
SUPER COPY 64
BULLET COPY 39.95****-
VAL
3-PASS, 5-MIN, SINGLE-DRIVE BACKUP. THIS ONE KEEPS THE DRIVE SPINNING DURING DISK SWAPS, WHICH I FOUND VERY DISCONCERTING, THO I DON'T SUPPOSE IT HURTS ANYTHING.
DISCONCERTING THO I DON'T SUPPOSE IT HURTS ANYTHING
Placementary and I bow I don't de II monto natimino.
MEGABYTE
MGS(D)29.95*** MULTI- PROGRAM, 4-MIN. COPY PACKAGE. EXAMINS DISK
ERRORS, WRITES NECESSARY ERRORS QUICKLY, TESTS SECTORS,
SECTOR COPY, DISK NAME CHANGE, AND ID NUMBER CHANGE.
DISKIT 64
PTE(D)75.00NA FAST SINGLE DISK BACKUP WITH UTILITIES.
64 DISK CLONE
DESNA
ONE-PASS BACKUP FOR 2 SINGLE DRIVES.
COPY CAT 64 VIM(D)19.95NA
COPYMAKER
CGR(D)30.00NA
FAST SINGLE DRIVE BACKUP ROUTINE.

## BACKUP/COPY SOFTWARE CONT'D

ULTRA COPY 64

COPY-PROTECTED). RECREATES ERRORS: 20,21,22,23,27, &

BACKUP V1.0
SWP....(T)...
CASSETTE BACKUP ROUTINES. ......24.95......NA



### TB-1 DATA CASSETTE COPIER

TB-1 DATA CASSETTE COPIER.

INCLUDING MACH. LANG.

## SCELLANEOUS UTIL



AXE/RECOVER

HAC....(D)....23.99....\*\*\*

† THIS IS A COMBINATION HARDWARE & SOFTWARE PRODUCT.
THE AXE IS A SMALL CARTRIDGE WHICH PLUGS IN WHERE YOUR
MODEM USUALLY GOES- IT HAS A PUSHBUTTON SWITCH WHICH IS PUSHED TO REACTIVATE THE 64 WITHOUT CLEARING MEMORY. THE M.L. RECOVER SOFTWARE ALLOWS RECOVERY OF PROGRAM IN MEMORY AT THE TIME THE AXE IS ACTIVATED. USES: 'UN-NEW' A PROGRAM, CIRCUMVENT PROTECTED PROGRAMS (FOR LEGITIMATE PURPOSES OF COURSE) WHICH USE LIST, SAVE, & RUN/STOP DISABLING/ STOP 'RUNAWAY' DISKS/ RESTART CARTRIDGES & SIMILAR OPERATIONS.

PRINTER UTILITY PROGRAMS

CAR.....(T).....19.95......\*\*\*+
ALLOWS SCREEN DUMPS TO EPSON, GEMINI, OR PROWRITER
PRINTERS. REVERSE DUMPS / FROM PROGRAM OR KEY-TRIGGERED. ALSO PROVIDES FOR PRINTING OF GRAPHICS CHARACTER SET. INCLUDES LARGE-FONT BANNER ROUTINES FOR PRINTER.

## TELECOMPUTING



SMART 64 TERMINAL +3

MTS....(NA)...39.95...\*\*\*
USER-DEFINED PARAMETERS (BAUD. PARITY ETC.) / COMPILED
BASIC/ ONE-KEY LOG-ON / UP & DOWN-LOAD / 28k SAVE BUFFER / BASIC TO TEXT TO BASIC CONVERSION / PRINTER SET-UPS BUILT-IN MEDGE COMMANDS / TIMER / NORDPRO- COMPATIBLE / FORMATTED END-OF-LINE / ENTIRE 28K BUFFER DUMPS TO DISK IN 3.5 MIN. / VISUAL INDICATION OF BUFFER SPACE REMAINING / ECHO OF TRANSMITTED DATA / SPECIALLY DESIGNED TO OPTIMIZE ACCESS TO COMPUSERVE & COMMODORE'S COMPUSERVE DATABASE. (THIS IS THE WAY YOU GET FREE SOFTWARE WITH YOUR MODEM.) NOW SUPPORTS 1650 AUTO-DIAL MODEM, DATA-20 80 COLUMN HARDWARE, DOWNLOADS AT UP TO 1200 BAUD (WITH THE RIGHT HOST PROTOCOL), ALSO WORKS WITH MSD DRIVES. CONTINUOUSLY DISPLAYED TIME-OF-DAY CLOCK WITH ALARM.

THIS PROMISES A WHOLE NEW DIMENSION TO TELECOMPUTING AS WE KNOW IT NOW. NAPLPS COMPATIBLE COMMANDS IMPLEMENTED INCLUDE: DOMAIN/ TEXT (SUBCOMMANDS; ROTATION, PATH, INTER-CHARACTER SPACING, INTER-ROW SPACING, CHARACTER INTER-CHARACTER SPACING, CHARACTER SPACING, INTER-CHARACTER SPACING, INTER-ROW SPACING, CHARACTER FIELD DIMENSIONS) / TEXTURE/ SET COLOR/ SELECT COLOR/ WAIT/ RESET/ POINT/ LINE/ ARC/ RECTANGLE/ POLYGON/ FIELD/ INCREMENTAL POINT/ UNDERLINING/ CANCEL/ NULL/ 8 & 7 BIT MODE/ UNPROTECTED FIELDS. INTERPRETS INCOMING COLORS TO THE NEAREST C64 COLOR. USES FULL 320 X 200 HI-RES. PERMITS EITHER 300 OR 1200 BAUD COMMUNICATIONS. THIS SYSTEM APPARENTLY DOES WITH SOFTWARE WHAT COSTS \$400-\$1000 TD DD WITH HARDWARE ON OTHER PERSONAL COMPUTERS.

### [TELECOMPUTING (CONT'D)

SUPERTERM	7 64		
	(T)	. 99.00	NA
TEL-EASY			
COS	(R)	29.95	NA
CARTRIDGE TERMIN	AL SOFTWARE.	SUPPORTS AUTO-D	IAL MODEMS.

HAS 32K BUFFER, REAL-TIME CLOCK W/ ALARM. SAVE TO DISK AS SEQ. OR PROGRAM FILES.

COMPACK

CGR......(NA).....129.00.....NA
THIS IS A SERIAL INTERFACE, CABLE, AND SOFTWARE PACKAGE
FOR TELECOMPUTING; FEATURES DOWNLOAD AND FILECONVERSIONS (ASCII, BASIC, BINARY, & MAE). YOU SUPPLY THE MODEM.

CTE "DUMB" TERMINAL SOFTWARE, SELECTABLE BAUD RATE)

MSD......(NA).....NA

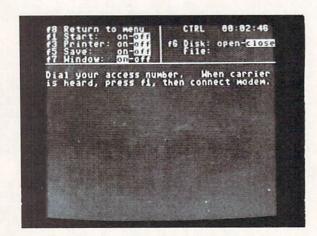
SMART TERMINAL BYR....(D/T)... ...18.95/16.95.. SMOOTH SCROLLING / TRANSMITS ALL ASCII CONTROL CODES / KEY REPEAT / 4 PRE-LOAD LINES / MENU DRIVEN / TRANSMITTED AND RECEIVED CHARACTERS IN DIFFERENT COLORS.

OMNICOMM

STG.....(D/T).....34.95.....NA
UP-DOWN LOAD / DUMPS TO PRINTER.

INTEL-TERM

RTC....(D)....(50.00....NA
SMART TERMINAL SOFTWARE FROM RICHVALE TELECOMMUNICATIONS
INCLUDES "COLOR 80" (SEE 'DOUBLE-TAKE' THIS ISSUE), AND EMULATES THE POPULAR VT-100 TERMINAL.



### COMMANDER ULTRA TERMINAL-64 CRQ.......(R).......69.95......NA

SELECTABLE TERMINAL PARAMETERS/ DOWNLOAD TO DISK/ DUMP TO PRINTER/ ELAPSED-TIME INDICATOR

TRANS-TERM

DAY.....(D)....29.95... 'SMART' TERMINAL PROGRAM/ DOWNLOAD TO DISK

DIAL-FILE

DAY.....(D).....14.95.....NA
RETRIEVE, AND DIAL 140+ PHONE NUMBERS FROM SOFTWARE.

COMMTERM-64

M&M.....(D).....39.95.....NA
UP & DOWNLOAD / AUTO DIAL, ANSWER, HANG-UP / INCLUDES
SEPARATE TEXT EDITOR FOR PREPARING UPLOAD TEXT.
(SEPARATE VERSION AVAILABLE FOR DATA-20 80-COLUMN BOARD) TERMINAL

SFL......(NA)......49.95......NA
CLAIMS 40, 64, 80, & 106 COLUMN SOFTMARE DISPLAY /
MACHINE CODE / 15 ENTRY PHONE DIRECTORY / 20
PROGRAMMABLE KEYS / AUTO DIAL & REDIAL / USES DISK AND
PRINTER SIMULTANEOUSLY / USE FILES AS LARGE AS YOUR

DISK.

'WAR GAMES' AUTODIALER

MGS......(NA).....29.95......NA
AUTOMATICALLY DIALS SET OF NUMBERS/ REVIEWS NUMBERS
ANSWERED BY A COMPUTER/ SAVES & PRINTS NUMBERS ANSWERED BY COMPUTER

### BULLETIN BOARD SOFTWARE

BULLETIN BOARD

.39.95. M6S......(D)......39.95.....NA
SET UP AND RUN YOUR OWN BULLETIN BOARD WITH ONE OR TWO M65...

1541'S. ELECTRIC MAGAZINE BULLETIN BOARD

RSH......(D).....(NA)......NA
CUSTOMIZE THIS BULLETIN BOARD SOFTWARE TO SUIT YOUR OWN
NEEDS. DYER 350 OF THESE ARE CURRENTLY IN USE! (THAT'S QUITE A FEW SYSOPS).

GENERIC BULLETIN BOARD

64's / M.L. MONITOR / RESIDENT TERMINAL SOFTWARE / CP/M

COMPATIBILITY.

BUSCARD II 

VICTREE

USER-PORT.

INTERPOD

DF 64.

CEENET

INTERCONNECTED.

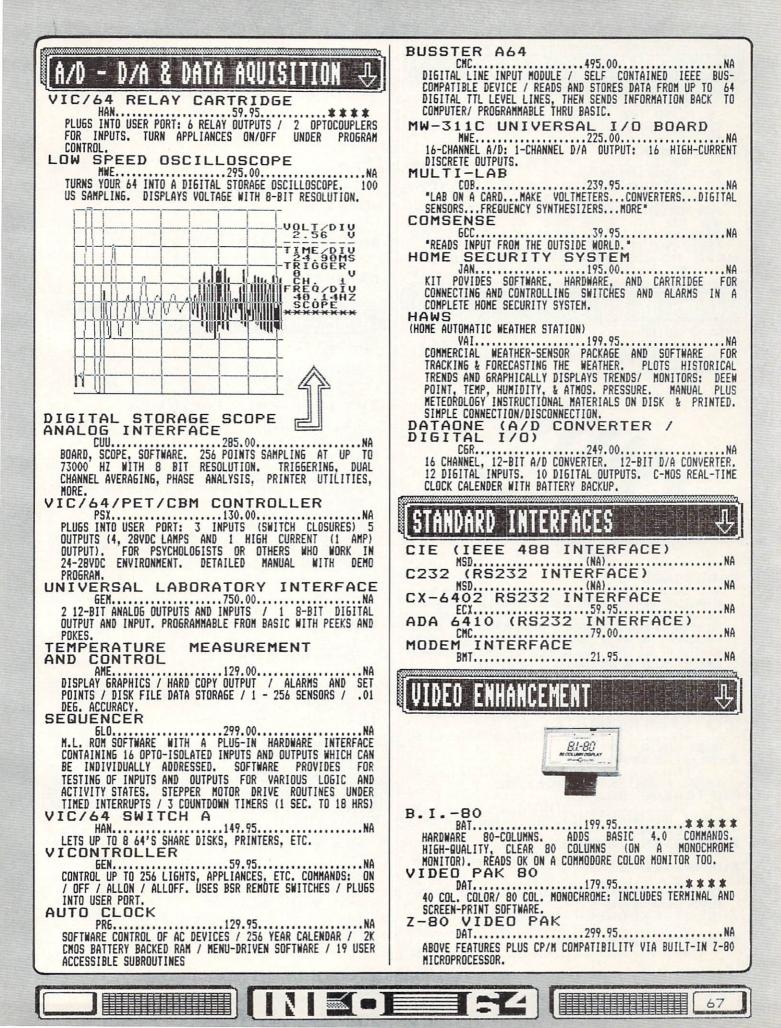
MULTI-LINK

RTC......ABOUT \$100 PER COMPUTER.....NA
WILL CONNECT UP TO SIXTY-FOUR 64'S IN A LOCAL NETWORK
UNDER CONTROL OF ONE 'MASTER' 64/ ESPECIALLY SUITED FOR
EDUCATIONAL ENVIRONMENT.

OCTOPUS

COB......NA
ALLOWS AS MANY AS 8 64'S TO SHARE THE SAME DISK DRIVE OR COB... PRINTER/ MANUAL SWITCHING CONTROLS ACCESS PRIORITY.



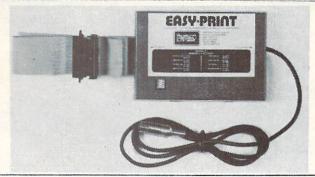


VIDEO ENHANCEMENTS (CONT'D)
COLOR-80 SOFTWARE. RTC(DISK)39.95***
80 COLUMNS FROM SOFTWARE. USES NO BASIC RAM / COMPATIBLE WITH C-64 LINK. (SEE 'DOUBLE-TAKE' IN ISSUE
SCREENMAKER CGR
VID (VIDEO IMPROVEMENT DEVICE) CAC
PLUG THIS LITTLE WIDGET INTO YOUR 5-PIN VIDEO PORT AND HOOK YOUR T.V. TO THE USUAL RF PLUG. VISIBLE IMPROVEMENT OF PICTURE QUALITY ON MANY TV'S (SEE 'DOUBLE-TAKE' IN PREMIERE ISSUE.)  WAVE 80-COLUMN VIDEO BOARD
WCI139,95NA
[EXPANSION BOARDS - 4]
SMARTSLOT PRG
PRG*** FUSE-PROTECTED HARD-SWITCHED OR SOFTWARE SELECTED EXPANSION SLOTS. RESET.
CADDDOADD 5
CARDBOARD 5
CARDBOARD 5
CARDBOARD 5  CAR



FQ/64  6LO
64 VERSION OF 'PROMOUEEN'- READS, PROGRAMS, EDITS, & RUNS 2500 & 2700 SERIES EPROMS, W/ SOFTWARE.  PQ/64 RS 6LO
PERFORMS RS-232 VOLTAGE CONVERSIONS FOR P0/64.  ROM PACKS (FOR ABOVE) GLO
COB
CARDETTE  CAR
CAR
INTERFACE ALLOWS USE OF NON-CBM CASSETTE DECKS. IT SEEMS THAT THE ECONOMY TYPE TAPE DECKS ACTUALLY WORK BETTER WITH THIS THAN THE PREMIUM TYPES.  CBM 64 RABBIT CARTRIDGE EAS
CLAIMS 6X NORMAL CASSETTE LOAD & SAVE. WITH 12 ADDITIONAL COMMANDS.  GRIZLY  EPD
UNINTERRUPTABLE POWER SYSTEM: KEEP COMPUTING FOR TWENTY MINUTES AFTER A TOTAL POWER OUTAGE. GIVES YOU TIME TO
LEMON / LIME /
PEACH / ORANGE  EPD
VIAC INC
NON-CBM CASSETTE INTERFACE. SUPER BLOCKSAVER
SOFTWARE AND CARTRIDGE ALLOWS MAKING BACKUP COPIES OF C64 CARTRIDGES TO DISK.
COB
CBY
PRINTER INTERFACES 🕹
EASY-PRINT WITH GRAPHICS
PRG

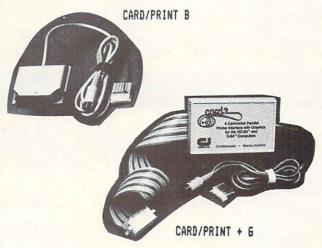
### PRINTER INTERFACES (CONT'D)



### EAST-PRINT INTERFACE

CARD/PRINT B

CONFIGURATIONS.



CARD/PRINT + G

ASCII VALUES FOR NON-IMPLEMENTED CHARACTERS). THIS AT THE SAME PRICE THAT MADE THE OLD CARD/PRINT A GREAT VALUE IN PRINTER INTERFACES. (SUITABLE FOR USE WITH: OKIDATA 82,94,92,94, EPSON MX 80, RX 80, FX 80, GEMINI 10X. PROWRITER, CITCH 8510, NEC 8023, AXIOM 6P 100, AND BANANA PRINTERS.) THERE ARE SOME PROBLEMS WITH SOME SEMINI PRINTERS DUE TO ROM CHANGES WHICH CARDCO SAYS CAN BE SIVED BY CONTACTING STAP MICRONIUS FOR A REPLACEMENT BE FIXED BY CONTACTING STAR MICRONICS FOR A REPLACEMENT ROM. WE DON'T LIKE THE INTERNAL DIP SWITCHES WHICH ARE HARD TO GET AT (YOU HAVE TO COMPLETELY OPEN THE HOUSING) AND NEED SOME FIDDLING WITH TO GET SET UP PROPERLY. OTHERWISE, THIS IS A PRETTY GOOD VALUE.

GRAPPLER CD

ORA... FOR BOTH) AND PROVIDES MANY MODES OF PRINTER OPERATION INCLUDING: EXACT 1525 EMULATION INCLUDING GRAPHICS CHARACTERS FOR EPSON, STAR, OKIDATA, PROWRITER, NEC AND OTHERS / MULTIPLE SCREEN-DUMP ROUTINES FOR HI-RES AND BLOCK GRAPHICS, DOUBLE SIZED, INVERTED, ROTATED, EMPHASIZED GRAPHICS, & INTEGRAL TEXT FORMATTING COMMANDS.

TYMAC 'CONNECTION' FACTORY CONFIGURED TO YOUR PRINTER MODEL.

TYMAC PARALLEL CABLE W/ DRIVER

PRINTER SPECIFIC 'ECONOMY' INTERFACE: SOFTWARE ABLE ON DISK TO SUPPORT GRAPHICS PRINTING.

SMART ASCII

A SERIOUS LIMITATION.

PRINT-MASTER

COMMANDS. WORKS WITH EPSON & EPSON-COMPATIBLE PRINTERS

PRINTMASTER-64

TO BASIC/ TEXT & GRAPHIC SCREEN DUMPS/ UN NEW COMMAND.

PRINT-64

CHARACTERS.

L&L PRINTER INTERFACE

MW-302 PRINTER INTFC.

CONNECTS 64 SERIAL PORT TO CENTRONICS-TYPE PARALLEL PRINTERS. TRANSLATES CBM ASCII TO STANDARD ASCII. ATA 20 PRINTER INTERFACE

(CONNECTS TO MODEM PORT)

MSD......NA



MSD SINGLE DISK DRIVE

MSD DUAL DISK DRIVE

MSD DUAL DISK DRIVE

## MASS-STORAGE (CONT/D)

(5",8", SINGLES & 3.5" DUAL)

UNITRONICS WAFERDRIVE

UNI......UNDER 100.00......NA
THIS IS AN IMPLEMENTATION OF THE EXATRON STRINGY-FLOPPY 

DISK- EMULATION SOFTWARE (RAMDISK) AND MEMORY MANAGEMENT SOFTWARE. PLUGS INTO CARTRIDGE SLOT AND PROVIDES 2 FREE EXPANSION SLOTS PLUS 4 RAM BOARD SLOTS (EACH RAM BOARD CAN HOLD 256K (4 64K CHIPS). SOME 3RD PARTY SOFTWARE HOUSES ARE ALREADY WORKING WITH MOSAIC ON NEW SOFTWARE PACKAGES WHICH WILL TAKE ADVANTAGE OF THIS HUGE AMOUNT OF RAM.

(SEE ARTICLE IN ISSUE #2) C-321P DUAL DRIVE

BUILT-IN AND READY TO GO. CAN SUPPORT UP TO 3 SLAVE UNITS FOR A 4-DRIVE MAXIMUM SYSTEM. (SLAVES WILL COST LESS THAN THE MASTER UNIT). 174K STORAGE CAPACITY. DP-2000 CASSETTE DECK

COMES WITH CONNECTING CABLE FOR C64 BUT CAN BE USED WITH OTHER COMPUTERS, OR AS A CONVENTIONAL CASSETTE RECORDER WHEN NOT NEEDED AT THE COMPUTER. GOOD IDEA. EDC.....(NA)...



MICRON EYE CAMERA

MICRONEYE CAMERA

TWO MODELS OF SOLID STATE IMAGING DEVICE (THE DIFFERENCE BEING IN THE MAXIMUM DISTANCE DEVICE MAY BE FROM COMPUTER). BOTH CONNECT TO EXPANSION PORT OF 64, SOFTWARE INCLUDED ALLOWS DISPLAY OF IMAGES TO SCREEN. GRAY- SCALE / SOFTWARE CONTROLLED SHUTTER / FRAME STORE & RECALL.

(SEE REVIEW IN ISSUE #2 )

VOTRAX SPEECH SYSTEM

AMPLITUDES / SIMULTANEOUS SPEECH AND EITHER MUSIC OR SOUND EFFECTS / 8-OCTAVE 3-VOICE MUSIC / SERIAL AND PARALLEL INTFCS. INCLUDED / BUILT-IN PROGRAMMABLE CLOCK / EXEPTION TABLES / PROGRAMMABLE RATE AND INFLECTION / 3500 CHAR. BUFFER / REAL TIME CLOCK WITH 8 USER-DEFINED ALARMS / BAUDS FROM 75 TO 9600 / MORE!

S.A.M. (SOFTWARE ACTIVATED MOUTH)

SOFTWARE SPEECH SYNTHESIZER: NATURAL (MELL...) SOUNDING SPEECH/ VARIABLE PITCH, SPEED, INFLECTION/ ENGLISH TEXT-TO-SPEECH CONVERSION/ EASY TO USE IN PROGRAMS.

VOICEBOX

SMARTVOICE

SPEAKEASY PPP ... .....91.95.....NA

COMVOICE

PORT.

1650 AUTO-MODEM

300 BAUD/ INCLUDES AUTO-DIAL, AUTO-ANSWER SOFTWARE AND TERMINAL SOFTWARE (TERMINAL SOFTWARE ALLOWS SETTING TERMINAL PARAMETERS, BUT HAS NO SAVE BUFFER OR UP/DOWN-LOADING )

VICMODEM

Commodore Bus. Machines.....49.95.....\*\*\*

HESMODEM I

INCLUDED FOR 64.



AIR-1

OUTPUT.

VIDEO GAME IN ABOUT 4 SECONDS. (THIS OPENS UP A WHOLE NEW MARKET FOR CABLE TV.)

AUTO-PRINT MICROCONNECTION

HESMODEM II

AUTO ANSWER/DIAL MODEM INCLUDES TERMINAL SOFTWARE. MIGHTY MODEM

.....79.95......NA BAUD MODEM

WITH TERMINAL SOFTWARE

BAZ......89.00......



KOALA PAD (WITH SOFTWARE)

SOFTWARE: USES THE 64'S 16 COLORS PLUS 136 MIXED-COLORS. FEATURES 'OOPS' MISTAKE CORRECTION, SOPHISTICATED BLOCK MOVES, QUAD-SYMMETRIC MIRROR MODE, COLOR SWAPS, & MANY OTHER DAZZLING EFFECTS! THIS IS ONE OF THE 10 BEST PRODUCTS OF 1983!

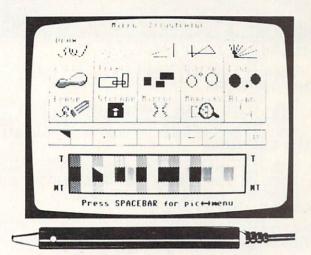
(SEE REVIEW: ISSUE #2)
FLEXIDRAW LIGHT PEN (WITH 'PENWARE ' DRAWING SOFTWARE)

SOPHISTICATED MACHINE LANG. DRAFTING SOFTWARE/ A SEPARATE BASIC ROUTINE FOR PROGRAMMABLE GRAPHICS/ SPRITE EDITOR AND ANIMATOR/ READY-TO-USE TEMPLATES FOR ELECTRONIC CIRCUITS, GREEK SYMBOLS, & MUSIC COMPOSITION, LIGHT PEN MUSIC SYNTHESIZER/ AND A LIBRARY OF SAMPLE DRAWINGS.

(SEE REVIEW: ISSUE #2)

(SEE ALSO: GRAPHICS SECTION)

SVI.....\*\*\*



### LP-108 LIGHT PEN

KP-1 NUMERIC KEYPAD

AND THE 64 KEYBOARD. THIS GUARANTEES COMPATIBILITY WITH ALL SOFTWARE. THE MODIFICATIONS ARE SIMPLE- JUST PLUG IN THE CABLE BETWEEN THE KEYBOARD AND THE CIRCUIT BOARD. THE FIT IS A BIT TIGHT, BUT IT WORKS.



### Super Grandin

SUPER SKETCH

INCLUDES GRAPHICS MASTER SOFTWARE CARTRIDGE.

DIFFERENT APPROACH TO GRAPHICS INPUT. USES A STYLUS ARM ATTACHED TO A PLASTIC "CLIP-BOARD". UNFORTUNATELY, WHILE THIS ARRANGEMENT HAS DEFINITE APPEAL. THERE IS TOO MUCH MECHANICAL PLAY IN THE STYLUS ARM TO TAKE ADVANTAGE OF THE GOOD GRAPHICS CAPABILITIES OF THE SOFTWARE. I DON'T KNOW IF THIS CAN BE REMEDIED AT SUCH A LOW PRICE.

EDUMATE LIGHT PEN

VISION GRAPHICS SOFTWARE.

GIBSON LIGHT PEN SYSTEM.

KOA. (250.00. NA

(SEE GRAPHICS SECTION)

POWERPAD

SIMULTANEOUS ACTIVATION OF MULTIPLE POINTS ON THE ACTIVE SURFACE.



## USER INPUT DEVICES CONTO 🕹

AAPI SII AI ABLAAR
HI-RES LIGHT PEN
SYM
DATAWAFER (NA)NA
UNIQUE PACKAGE IS SAID TO REPLACE JOYSTICKS, LIGHT PENS, TRACKBALLS, AND CONVENTIONAL 'MICE'. WIRELESS MOUSE
WORKS ON SÉNSITIVE TABLET (UP TO 20" X 20" AVAILABLE).
JOY*SENSOR SUN34.95NA
STICK-LESS JOYSTICK. TOUCH-SENSITIVE FLAT- PANELS ACCOMPLISH BOTH MOVEMENT AND 'FIRE- BUTTON' TASKS.
ACCOMMODATES RIGHT OR LEFT HANDED PLAYERS.
KRAFT JOYSTICK KSC14.95NA
ENJOYSTICK
(RIGHT OR LEFT- HAND JOYSTICK) TGP
ZIRCON TRACKBALL ZIR
FREEDOM
5' REMOTE KEYBOARD. PRS
KIT PUTS YOUR KEYBOARD IN A SEPARATE LOW-PROFILE HOUSING AT THE END OF A 5' CABLE. COMPUTER CAN THEN BE TUCKED
AWAY OUT OF SIGHT OR UNDER MONITOR.
FREEDOM PLUS PRS
LIKE FREEDOM ABOVE, BUT WITH 15-KEY NUMERIC PAD.
CAP 79 95 NA



### FLEXILIZEV SVSTEN

FLEXIKEY SYSTEM	NA
h55b9.99.90	MH
20- KEY NUMERIC PAD. EACH KEY MAY BE DEFINED TO HAVE VALUES/ DRIVER SOFTWARE IN BASIC	3
VALUES/ DRIVER SUPIWHRE IN DASIL	
10-KEY PAD	
QUA	NA
NUMERIC KEYPAD	
COP	NA

## CABLES, GADGETS, ETC.

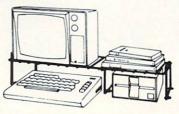


MONITOR CABLE (5-PIN/ CHROMA, LUMA, AUDIO, AUDIO RETURN)
TB-1 DATA CASSETTE COPIER
CONNECTS TWO DATA CASSETTES TO MAKE BACKUP COPIES OF CASSETTE SOFTWARE INCLUDING MACHINE LANGUAGE AND COPY
PROVIDES STANDARD RCA PHONO CONNECTIONS FOR EASY HOOK UP TO STERED ETC.
COM-COOL / COM-COOL PLUS
CISNANA FILTERED BLOWER COOLING UNIT FOR 1541 DISK DRIVES. COM-COOL PLUS INCLUDES INTEGRAL SURGE/SPIKE PROTECTOR. VIDED CABLE (5-PIN TYPE) DATNA
AUDIO/VIDEO CABLE (5-PIN TYPE)
UNIVERSAL TAPE INTERFACE & DUPLICATOR
POWERMASTER (RUN YOUR 64 OFF YOUR CIGARETTE LIGHTER)
SOFTWARE PROTECTION DEVICES
SOF
THE SIGNAL ZAX29.95NA
CONVENIENCE DEVICE GIVES AUDIO SIGNAL WHEN VARIOUS CASSETTE OPERATIONS ARE COMPLETED/ ALLOWING UNATTENDED CASSETTE USE.
INC
INC
INC
PROVIDES FOR EASY CONNECTION TO AUDIO AND VIDEO COMPONENTS- USES STANDARD RCA PLUGS.  FIREFLY— PORTABLE POWER  GMA. (NA) NA  FIRETURE & ENCLOSIVES  DISKBANK  AMA. 7.95
PROVIDES FOR EASY CONNECTION TO AUDIO AND VIDEO COMPONENTS- USES STANDARD RCA PLUGS.  FIREFLY— PORTABLE POWER  GMA. (NA)
INC. PROVIDES FOR EASY CONNECTION TO AUDIO AND VIDEO COMPONENTS- USES STANDARD RCA PLUGS. FIREFLY— PORTABLE POWER  5MA. (NA) NA  DISKBANK  AMA 7.95 ****  HANDY INTERLOCKING DISK- STORAGE MODULES. ROLLTOP 100  MCA 36.00 ****  CONVENIENT AND SPACE-EFFICIENT LARGE-CAPACITY DISK STORAGE SYSTEM. HOLDS 100 DISKETTES BETMEEN 11 DIVIDERS. LOCKING SECURITY VERSION ALSO AVAILABLE
INC. 19.95
INC
INC. PROVIDES FOR EASY CONNECTION TO AUDIO AND VIDEO COMPONENTS- USES STANDARD RCA PLUGS.  FIREFLY— PORTABLE POWER  GMA.  (NA)  DISKBANK  AMA.  HANDY INTERLOCKING DISK- STORAGE MODULES.  ROLLTOP 100  MCA.  CONVENIENT AND SPACE-EFFICIENT LARGE-CAPACITY DISK STORAGE SYSTEM. HOLDS 100 DISKETTES BETWEEN 11 DIVIDERS. LOCKING SECURITY VERSION ALSO AVAILABLE (\$46.00).  CT130 COMPUTER DESK  BUS.  169.95.  CTA131 HUTCH (GOES ON 10P OF CT130)  BUS.  99.95.  CT120 ROLL—ABOUT TABLE  BUS.  79.95.  ****
INC
INC. PROVIDES FOR EASY CONNECTION TO AUDIO AND VIDEO COMPONENTS- USES STANDARD RCA PLUGS.  FIREFLY— PORTABLE POWER  GMA.  (NA)  DISKBANK  AMA.  AMA.  7.95.  HANDY INTERLOCKING DISK- STORAGE MODULES.  ROLLTOP 100  MCA.  CONVENIENT AND SPACE-EFFICIENT LARGE-CAPACITY DISK STORAGE SYSTEM. HOLDS 100 DISKETTES BETWEEN 11 DIVIDERS. LOCKING SECURITY VERSION ALSO AVAILABLE (\$46.00).  CT130 COMPUTER DESK  BUS.  CTA131 HUTCH (GOES ON TOP OF CT130)  BUS.  BUS.  CTA131 HUTCH (GOES ON TOP OF CT130)  BUS.  P9.95.  ****  THIS WILL HOLD EITHER A 64 AND DISK DRIVE (MONITOR RAISED OVER KEYBOARD) OR A VERY LARGE PRINTER.

DUTY AS A COPY HOLDER.

## HADE FILDWITHDE & FNE CONDEC 11

TRAVELMASTER
SOC***  LOCKING MOLDED POLYETHELENE CASE SIZED & FOAM-PADDED FOR
ONE 64 AND DRIVE. CM703 CASE
(HOLDS 64 AND DISK DRIVE) CCC
CS1632 STORAGE CABINET
LOCKING CABINET WITH ROOM FOR YOUR KEYBOARD AND DISK- DRIVE.
DESKTOPPER
MAD
CLUTTERBUSTER (MONITOR STAND) CMU
SYSTEM ORGANIZER
CPI
FOR OTHER GOODIES. OAK VENEER.
PRINTER STAND (OAK VENEER / MATCHES ORGANIZER)
DISK-DEX 44.95NA
(MATCHING OAK VENEER- HOLDS 50 DISKETTES)
COMPUMATE 101 29.95NA
(OVER-KEYBOARD ACRYLIC MONITOR STAND) PCT
MAG-RAK
R&L
JOON MOUN-SINITON'



### THE ORGANIZER

THE	ORGANIZER
	BRGNA
	FRAME STYLE HOLDER FOR MONITOR ETC.
SOLI	D DAK FURNITURE
	FINVARIESNA
VERY	HANDSOME- SEND OR CALL FOR THEIR BROCHURE.

C. ITOH 8510S CIT....\*\*\*\*

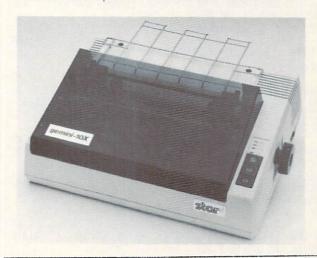
180 CPS DRAFT MODE. 120 CPS NEAR-LETTER QUALITY MODE.
NLQ PROPORTIONAL CHARACTER SET LOOKS VERY CONVINCING. TRACTOR/ FRICTION/ ROLL FEED. DOES NOT HANDLE SHIPPING

LABELS WITH THE SAME RELIABILITY AS SOME DUE TO HIDDEN TRACTOR BEFORE PLATTEN (PUSHES PAPER THRU, RATHER THAN PULLS): NONETHELESS, A SUPERIOR PRINTER.

This is a sample of 10 cpi proportional printout (near letter quality mode) from the C.Itoh 8510S dot-matrix printer.

### GEMINI DELTA 10

PRODUCTS SO FAR, AND THEY KJUST KEEP GETTING BETTER.

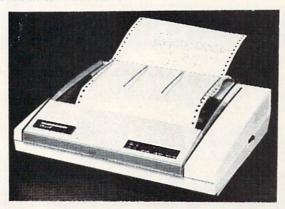


### CENTINI TO-ES

### GEMINI 10-X

TRACTOR, & ROLL FEEDS / USER- REPLACEABLE PRINT-HEAD / STANDARD RIBBONS / WIDE VARIETY OF FONTS & CHAR. SIZES / EPSON FX-80 CODE COMPATIBLE. BECAUSE OF ITS PRICE & PERFORMANCE, WE CONSIDER THIS PRODUCT TO BE THE LEADING 'PRINTER OF THE MASSES'.

OVERHEATING POSSIBILITY.



### DOLLO SPIRIT-30

SHEET AND PIN-FED PAPER HANDLING.

## (DOT MATRIX PRINTERS (CONT'D)

RADIX-10
SMI
SMI
M120/10 BCE349.00NA
120 CPS / CORRESP. GUALITY MODE / CONNECTS DIRECTLY TO C64 MITHOUT SEPARATE INTERFACE / BI-DIRECT., LOGIC-SEEKING / TRACTOR OR SHEET-FEEDER MODELS AVAILABLE.
CAR
IMP
ICD
CPE
INR. 399.00. NA EPSON WORK-ALIKE, LOOK-ALIKE WITH 120 CPS. IMPACT "40" THERMAL PRINTER FID. 160.00. NA
DIRECT-CONNECT TO 64: NO EXTRA INTERFACING/ 40-CHARACTER LINE/ USES STANDARD ADDING MACHINE PAPER/ 65 CPS PRINT SPEED.
LEGEND 800
LPP
ACTIVITY OF THE PROPERTY OF TH

## DAISYNHEEL PRINTERS

(MIYALMIREE LYTHIEVA - A)
TRANSTAR 130
TRA
WORDPRO-3 FEATURES COMPLETELY SUPPORTED / FRICTION FEED TRANSTAR 120
TRANANA
14 CPS / DIABLO CODE COMPATIBLE / WORDPRO-3 FEATURES COMPLETELY SUPPORTED / FRICTION FEED
CARDCO LQ/1 CAR599.95NA
14 CPS DAISY WHEEL / COMES FULLY INTERFACED FOR 64 AS
WELL AS STANDARD PARALLEL / SUPPORTS UNDERLINING, BOLD & SHADOW PRINT / TRUE PROPORTIONAL CHARACTER SPACING.
SOFTWARE SUPPLIED FOR TYPEWRITER EMULATION / CAN ALSO BE USED AS A TWO COLOR DOT GRAPHIC PRINTER FOR CUSTOM
LETTER HEADS AND LOGOS.
TTX-1014 TIX649.00NA
COMPACT DAISYWHEEL / 140 WPM / SERIAL & PARALLEL INTERFACES BUILT-IN
POWER TYPE
SMI
AND PROPORTIONAL SPACING / 100 TYPE FONTS AVAILABLE / REVERSE PAPER FEED / BOTH SERIAL AND PARALLEL
INTERFACES.

## COLOR PRINTERS

C.ITOH 8510SC
THIS IS THE COLOR EDITION OF THE 180 CPS C.ITCH
(SEE-EE-TOE) B510. FOUR-COLOR RIBBON CARTRIDGE CAN PRODUCE SIXTEEN SOLID COLORS.
TRANSTAR 315 COLOR
TRA
EPSON JX-80
EPSNANA
DKIMATE 10
OKI
LIGHT-WEIGHT & COMPACT. RIBBONS ARE GOOD FOR ONE PASS
ONLY, SO PRINTING CAN GET RATHER EXPENSIVE (RIBBONS ARE ABOUT \$9.00 EA. AND ARE GOOD FOR ABOUT 10 PAGES OF
OUTPUT.) THE COLOR QUALITY IS GOOD (FROM THE SAMPLES
WE'VE SEEN) AND PRINTING CAN BE DONE ON ACETATE FOR DIRECT TRANSPARENCIES.



OCCIMENTE-10

## INFORMATION SERVICES

COMPUSERVE

CSV.......30.00....6.00....\*\*\*\*

SOURCE

SRC.....100.00....7.75....\*\*\*\*

DELPHI INFORMATION SERVICE

DEL.......49.95....5.00.....NA

## 

### DISPLAYS



1702 COLOR MONITOR

#### TV/MONITOR COMBINATIONS:

IF YOU CAN'T JUSTIFY THE COST OF A DEDICATED COLOR MONITOR, YOU MAY MANT TO BUY A COMBINATION TV/MONITOR WITH DIRECT VIDEO/AUDIO INPUTS/OUTPUTS. DON'T GET THE SONY WITH THE SPECIAL "COMPUTER INPUT" ON THE FRONT- THIS IS ONLY AN RF CONNECTION AND WILL NOT GIVE THE SAME QUALITY PICTURE AS DIRECT COMPOSITE VIDEO UNITS.

OF ALL THE COMBOS WE HAVE SEEN. THE BEST BY FAR IS THE MONTGOMERY WARDS 13" WITH ELECTRONIC REMOTE & CABLE-READY FOR \$250.00. IF YOU'RE SHOPPING FOR A COLOR MONITOR. THE 1702 AND THE WARDS ARE YOU'RE TWO BEST BETS.

#### MONOCHROME MONITORS:

THERE ARE MANY GOOD QUALITY MONOCHROME MONITORS AVAILABLE FROM COMPANIES LIKE ANDEK. BNC. PANASONIC. LEADING EDGE. ZENITH. ETC. THESE COME IN VARIOUS HUES LIKE GREEN, AMBER, YELLON, & B&H. ONE OF THE NICEST. THE SANYO 9" B&H. IS APPARENTLY NOT MADE ANYMORE. IF YOU GET A CHANCE TO PICK UP A USED ONE, DON'T PASS IT UP.



CEM 1702 COLOR MODITOR

### TOTALLY MISCELLANEOUS

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PAL

THE PROMPTER (PLASTIC FUNCTION KEY OVERLAYS)

DATA LOSS INSURANCE

SOFTWARE TRADING GROUP

YOU SEND IN A TAPE WITH A PROGRAM YOU WROTE, THEY COPY IT AND ADD 5 PROGRAMS TO YOUR TAPE AND RETURN IT TO YOU.

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# DOMAT MISS IT! ISSUE #5

SPECIAL GAMES ISSUE!

OM-SALE MILLENDER 84

36C - 36 COMPANY INC. 3RI - 3R IMPORT AND EXPORT CORP. AAR - AARDUARK ABA - AABCUS SOFTWARE ACA - ACADEMY SOFTWARE ACC - ACCESS SOFTWARE ACS - A-I COMPUTER SERVICES ADU - ASSOCIATION OF COMPUTER USERS ADU - ADVANCED ARCADEMARE ADI - ADVENTURES INC. ADV - ADVENTURE INTERNATIONAL AHG - AVALON HILL GAME CD. AIR - ARTIFICIAL INTELLIGENCE RESEARCH 6 ALI - ALIEN GROUP ALP - ALPHACOM AMD - AMBEK CORP. AME - AMERICAN DATA CABLE INC. AMI - AMIGA CORPORATION AMD - AMDEK CORP. AME - ARKTRONICS ART - ARTWORK SOFTWARE CO. ARK - ARKTRONICS ART - ARTHORK SOFTWARE AVC - AVCOR BAB - BYTES & BITS BAP - BYTES & BITS BAP - BYTES & BITS BAP - BYTES & PIECES BAB - BASIC BYTE INC. BAN - BANED SOFTWARE BAT - BATTERIES INCLUDED BAZ - BAZ ELECTRONICS, INC. BEH - BEHAVIORAL ENGINEERING BES - BOSTON ELECTRONIC SYSTEMS TRAINING BIB - BIBLE SOFTWARE BAT - BYTESIZE MICRO TECHNOLOGY BOS - BOSTON ELECTRONIC SYSTEMS TRAINING BIB - BIBLE CHIP SOFTWARE BIT - BITCARDS BIT - BYTESIZE MICRO TECHNOLOGY BOS - BOSTON EDUCATIONAL COMPUTING INC. BRA - ROBERT J, BRADY CO. BRG - B.R. GREEN BRT - BRILLEY SOFTWARE BRO - BRODERBUND SOFTWARE BRO - COMPUTER ACCESSORIES CAI - COMPUTER ACCESSORIES CAI - COMPUTER ACCESSORIES CAI - COMPUTER COSE COMPANY CCC - COMPUTER COSE COMPANY CCC - COMPUTER COSE COMPANY CCC - COMPUTER SOFTWARE COS - COMPUTER COSE COMPUTER CML - CORRECIAL DATA SYSTEMS LTD. CCS - COMPUTER CONTONIC CONTONIC CONTONIC CONTONIC CONTONIC CONTONIC CONTONIC CO				
36C - 36 COMPANY INC.	RT 3 / BOX 28A	CHITE AAS	GASTON CYPACHEE	OR 97119 503 662-4492
AAR - ARDVARK	2352 S. COMMERCE	SULTE 403	WALLED LAKE	MI 48088 313-669-3110
ACA - ACADEMY SOFTWARE	PO BOX 9403		SAN RAFAEL	CA 94912 415-499-0850
ACC - A-1 COMPUTER SERVICES	7103 2. CLEARWATER	H-117	KENNEWICK	WA 99336 509-783-4980
ADA - ADVANCED ARCADEWARE	PO BOX 845		THOMASVILLE	NC 27360 919-431-3231
ADI - ADVENTURES INC. ADV - ADVENTURE INTERNATIONAL	BOX 3435		LONGWOOD	FL 32750 305-862-6917
AHG - AVALON HILL GAME CO. AIR - ARTIFICIAL INTELLIGENCE RESEARCH G	MICROCOMPUTER GAMES DIVISION 921 NORTH LA JOLLA AVE.	DEPT. E	LOS ANGELES	CA 90046 213 656 7368
ALI - ALIEN GROUP ALP - ALPHACOM	27 W. 23RD ST. 2323 SOUTH BASCOM AVENUE		NEW YORK CAMPBELL	NY 10010 CA 9500B
AMA - AMARAY CORPORATION AMD - AMDEK CORP.	2251 GRANT ROAD 2201 LIVELY BLVD.		ELK GROVE VILLAGE	IL 60007 312-364-1180
AME - AMERICAN DATA CABLE INC. AMI - AMIGA CORPORATION	2864 RAY LAWYER DRIVE 3350 SCOTT BOULEVARD	#205-352 / PO BOX 22 BUILDING 7	PLACERVILLE SANTA CLARA	CA 95667 916-622-3465 CA 95051 408 748 0222
ANI - ANIMAX COMPUTER ARI - ARIES MARKETING CO.	1111 LAS VEGAS BLVD. SOUTH PO BOX 4196	SUITE 203 4200 SHANNON DRIVE	LAS VEGAS BALTIMORE	NV 89104 702 384 0746 MD 21205
ARK - ARKTRONICS ART - ARTWORX SOFTWARE CO. INC.	113 SOUTH FOURTH AVENUE 150 N. MAIN ST.		ANN ARBOR FAIRPORT	MI 48104 800 CALL ARK NY 14450 800 828 6573
ATA - ATARISOFT ATL - ATLAS SOFTWARE	PO BOX 2943 4120 LAKELAND AVE.		SO. SAN FRANCISCO MINNEAPOLIS	CA 94080 408 745 2000 MN 55422
AVC - AVCOR B&B - BYTES & BITS	512 KING STREET EAST 524 EAST CANTERBURY LANE		TORONTO PHOENIX	ON M5A-1M1 416 864 9240 AZ 85022 602 942 1475
B&P - BYTES & PIECES BAB - BASIC BYTE INC.	550 W. 68TH STREET PO BOX 924		WAUWATOSA SOUTHFIELD	WI 53213 414 257 3562 MI 48037-0 800-835-2246
BAN - BANED SOFTWARE BAT - BATTERIES INCLUDED	113 TENTH ST. 186 QUEEN STREET WEST		WEST KEANSBURG TORONTO	NJ 07734 201 495 0900 ON M5V 171 416-596-1405
BAZ - BAZ ELECTRONICS BCE - BLUE CHIP ELECTRONICS. INC.	PO BOX 4895 7406 EAST BUTHERUS DRIVE		FEDERAL WAY SCOTTSDALE	WA 98003 206 874 3029 AZ 85260 602 991 9833
BEH - BEHAVIORAL ENGINEERING BES - BOSTON ELECTRONIC SYSTEMS TRAINING	230 MT. HERMON RD. 24 MUNROE ST.	SUITE 207	SCOTTS VALLEY NEWTONVILLE	CA 95066 408 438 5649 MA 02160
BIB - BIBLE SOFTWARE BIT - BITCARDS	4169 SE DAVIDSON 120 SOUTH UNIVERSITY DRIVE	SUITE F	ALBANY PLANTATION	OR 97321 FL 33317 305 473 4741
BIZ - BIZWARE INC. BLU - BLUE CHIP SOFTWARE	5014 HWY 29 19537 WELLS DRIVE		LILBURN TARZANA	GA 30247 800 221 7171 CA 91356
BMT - BYTESIZE MICRO TECHNOLOGY BOS - BOSTON EDUCATIONAL COMPUTING INC.	PO BOX 21123 78 DARTMOUTH STREET	DEPT. E.	SEATTLE BOSTON	WA 98111 206 236 BYTE MA 02116 617-536-5116
BRA - ROBERT J. BRADY CO. BRG - B.R. GREEN	410 HUNTLEY DR.		BOWIE LOS ANGELES	MD 20715 301 262 6300 CA 90048 800 824 7888
BRI - BRILEY SOFTWARE BRO - BRODERBUND SOFTWARE	PO BOX 2913 1938 FOURTH STREET		LIVERMORE SAL RAFAFI	CA 94550-0 CA 94901
BRS - BIBLE RESEARCH SYSTEMS BTI - BEAR TECHNOLOGIES, INC.	PO BOX 1389 3417 ROGER B CHAFFEE BLVD.		ROUND ROCK GRAND RAPIDS	TX 78680 512 835 7981 MI 49508 616 245-5061
BUB - BUBBLE BUS BYR - BYTE-RYTE	87 HIGH STREET PO BOX 205	STATION CART.	TONBRIDGE/KENT	EN TN1 1LS PO HAK 2J5
BYT - BYTEMARK CAC - COMPUTER ACCESSORIES	710 LINCOLNWAY WEST	OTHER SHIPE	SOUTH BEND BAKERSELELD	IN 46616 219 232 4662 CA 93305 805 872 4488
CAI - COMPUTER ADVANCED IDEAS	1442A WALNUT STREET 3170 RONIT COURT	SUITE 341	BERKELEY YORKTOWN HEIGHTS	CA 94709 415 526 9100 NV 10598
CAR - CARDCO INC.	300 S. TOPEKA		WICHITA	KS 67202 316-267-6525 DE 19720 302 429 8545
CBI - CHALK BOARD INC.	3772 PLEASANTDALE ROAD		ATLANTA	GA 30340 800 241 3989
CBS - CBS SOFTWARE	ONE FAWCETT PLACE	SHITE R-5	GREENWICH	CT 06836 203 622 2503
CCC - COMPUTER CASE COMPANY	5650 INDIAN MOUND COURT	30112 8 3	COLUMBUS	OH 43213 614 868 9464 MD 20853 301 924 5509
CDC - COMM*DATA COMPUTER HOUSE	320 SUMMIT AVENUE		MILFORD	MI 48042 313-685-0113
CES - COMPUTER ED SOFTWARE	1002 BROOKES AVE. W.	SUITE 'C'	SAN DIEGO	CA 92103 800 621 0852
CIM - CIMARRON CORP.	DIVISION OF STANDUN CONTROLS	2158 HATHAWAY STREET	SANTA ANA	CA 92705 714-241-5600
CIS - CITY SOFTWARE	735 WEST WISCONSIN AVE.		MILWAUKEE	WI 53233 414-291-5125
CML - COMAL USER GROUP	5501 GROVELAND TER.	DO BUT 22201	MADISON	WI 53716 608 222 4432
CMX - COMREX INTERNATIONAL INC.	3701 SKYPARK DRIVE	10 DUA 20071	TORRANCE	CA 90505 213 373 0280
COB - COMPUTRON BUSINESS SYSTEMS	1139 SW 11TH AVENUE		PORTLAND	OR 97205 503 224 2220
COM - COMPUTERMAT	BOX 1664	DEPT C	LAKE HAVASU CITY	AZ 86403 602-855-3357
COP - COMPUTER PLACE COS - COMPUTER OUTLET	23914 CRENSHAW BLVD.		TORRANCE SAN DIEGO	CA 90505 213-325-4754 CA 92120 418-322-4754
76			THE DIE	CH 72120 017 282 6200

COU - COUNTERPOINT SOFTWARE INC.  CPE - COMPUTER PERIPHERALS  CPI - COMPUTER POWER INT'L  CPS - CONCORDE PERIPHERAL SYSTEMS INC.  CPU - COMPUTE! PUBLICATIONS INC.  CRE - CREATIVE SOFTWARE  CRO - CROSSTECH GRAPHICS  CRO - CREATIVE SOFTWARE ASSOCIATES  CSI - COUNTERPOINT SOFTWARE INC.  CSS - COMPREHENSIVE SOFTWARE SUPPORT  CSV - COMPUTECH  CUE - CUESTA SYSTEMS INC.  CUU - COMPUTER CONTINUUM  CYG - CYGNUS EXPERT SYSTEMS INC.  DAT - DATA 20 CORP.  DAY - DAYPROM COMPUTER INC.  DEE - M'SOFT (FRMRLY, DOUBLE-'E')  DEI - DYNAMIC ELECTRONICS, INC.  DEE - M'SOFT (FRMRLY, DOUBLE-'E')  DEI - DYNAMIC ELECTRONICS, INC.  DEA - DIALOGUE INFORMATION SERVICES  DIC - DISPLAY INTERFACE CORP.  DIA - DIALOGUE INFORMATION SERVICES  DIC - DISPLAY INTERFACE CORP.  DIL - DILITHIUM SOFTWARE  DIS - DIGITAL INTERFACE SYSTEMS CO.  DLM - DEVELOPMENTAL LEARNING MATERIALS  DLX - DELUXE COMPUTER FORMS  DMI - DMI SOFTWARE INC.  DMO - DATAMOST INC.  DOO - DOON'T ASK COMPUTER SOFTWARE  DOM - DON'T ASK COMPUTER FORMS  DTK - DATA TREK  DOS - EASTERN COMPUTER CONSULTING ASSOCI  ECI - EDUCATION CIRCUIT INC.  ECP - EMBASSY COMPUTER PRODUCTS  ECC - EASTERN COMPUTER COMPANY  EDC - EDUCATION CIRCUIT INC.  ECP - EMBASSY COMPUTER COMPANY  EDC - EUCCATION CIRCUIT INC.  ECP - EMBASSY COMPUTER COMPANY  EDC - ELECTRA CONCEPTS  ELE - ELECTRONIC ARTS	SUITE 140	SHELARD PLAZA NORTH	MINNEAPOLIS	MN 55426 612 944 3912
CPI - COMPUTER POWER INT'	1779 FAST FLORIDA		LOS ANGELES	CA 90015 213 298 1297
CPS - CONCORDE PERIPHERAL SYSTEMS INC.	23152 VERDUGO DRIVE		LAGUNA HILLS	CA 92653 714 859 2850
CPU - COMPUTE! PUBLICATIONS INC.	PO BOX 5406		GREENSBORO	NC 27403 919 275 9809
CRE - CREATIVE SOFTWARE	230 EAST CARIBBEAN DRIVE		SUNNYVALE	CA 94806 408-745-1655
CRU - CRUSSIECH BRAPHICS	2133 NUKIH FREMUNI SIREEI		CHICABU	IL 60614 312-8/1-3555
CSA - COMPUTER SOFTWARE ASSOCIATES	44 NAK STREET	THE STIK MILL	NEWTON UPPER FALLS	MA 02164 617 527 7510
CSI - COUNTERPOINT SOFTWARE INC.	4005 WEST 65 ST.	me orek mee	MINNEAPOLIS	MN 55435 800 328 1223
CSS - COMPREHENSIVE SOFTWARE SUPPORT	2316 ARTESIA BL.	SUITE B	REDONDO BEACH	CA 90278 213 318 2561
CSV - COMPUSERVE	2180 WILSON ROAD		COLUMBUS	OH 43228 800-848-8199
CIE - CUMPUIECH	TAAN PREPTA COURT		SAN LILIS ORISPO	CA 93401 805 541 4140
CUU - COMPUTER CONTINUUM	301 16TH AVE.		SAN FRANCISCO	CA 94118 415 752-6294
CYG - CYGNUS EXPERT SYSTEMS INC.	PO BOX 385		WATER MILL	NY 11976
DAB - DAYBREAK SOFTWARE	1951 GRAND AVE.		BALDWIN	NY 11510 800 645 3739
DAS - DATASUFT INC.	9421 WINNETKA AVENUE	CULTE DIO	CHAISWORTH	CA 91311 213 /01 5161
DAY - DAVIDSON & ASSOCIATES	ANAS ERRUFRAK PLACE # 12	SULLE BIO	RANCHO PALOS VERDE	CA 90274 213 378 7826
DAY - DAYPROM COMPUTER INC.	3460 S. DIXIE HWY.		DAYTON	OH 45439 513 299 8555
DEE - M'SOFT (FRMRLY, DOUBLE-'E')	12027 PACIFIC STREET		OMAHA	NE 68154 402 334 7870
DEI - DYNAMIC ELECTRONICS, INC.	1621 SENECA		WICHITA	K5 6/213 316 264 8636
DES - DATA FOULTMENT SUPPLY CORP.	8315 FIRESTONE RIUD.		DUMNEA	CA 90241 213-923-9361
DEX - DYNAMIC ELECTRONICS, INC.	1621 S. SENECA		WICHITA	KS 67213 316 264 8636
DIA - DIALOGUE INFORMATION SERVICES	3460 HILLVIEW AVE.		PALO ALTO	CA 94304 800 528 6050
DIC - DISPLAY INTERFACE CORP.	525 BOSTON POST ROAD	PO BOX 250	MILFORD	CT 06460 203 877 7661
DIG - DIGITAL AKIS CUKP.	PU BUX 20231		DEAUEDTON	OP 07075 000 547 1042
DIS - DIGITAL INTERFACE SYSTEMS CO.	PO ROY 8715		PORTI AND	DR 97207 503 230 1130
DLM - DEVELOPMENTAL LEARNING MATERIALS	ONE DLM PARK		ALLEN	TX 75002 800 527 4747
DLX - DELUXE COMPUTER FORMS	530 NORTH WHEELER	PO BOX 43046	ST. PAUL	MN 55164-0 800 228 5666
DMI - DMI SOFTWARE INC.	1866 BACON STREET		SAN DIEGO	CA 92107 619-223-4496
DOC - DOCUTE /OLIVETTI CORP	155 WHITE DIAINS DO		TARRYTOWN	NA 10201
DON - DON'T ASK COMPUTER SOFTWARE	2265 WESTWOOD BL.	STE. 8-150	LOS ANGELES	CA 90064 213-477-4514
DOW - DOW JONES NEWS	PO BOX 300		PRINCETON	NJ 08540 800 222 0081
DTK - DATA TREK	121 WEST E. ST.		ENCINITAS	CA 92024 619 436 5055
DUS - DUNGENESS SUFTWARE	323 LOTZGESELL ROAD		SEQUIM	WA 98382
DVN - DVNACOMP INC	1427 MONDOE AUE		BUCHESTER	NV 14418 714 447 8940
DYT - DYNATECH MICROSOFTWARE INC.	7847 N. CALDWELL AVE.		NILES	IL 60648 800 621 4109
EAI - EDUCATIONAL ACTIVITIES, INC.	PO BOX 392		FREEPORT	NY 11520 516 223 4666
EAS - EASTERN HOUSE	3239 LINDA DR.		WINSTON-SALEM	NC 27106 919-924-2889
ECC - EASTERN CUMPUTER CONSULTING ASSUCT	11 DICK DRIVE		MUKCESTER	MA 01607 W1 07850 201-398-4185
FCP - FMRASSY COMPUTER PRODUCTS	PO ROY RR		LITTLE NECK	NY 11363
ECX - ECX COMPUTER COMPANY	2678 NORTH MAIN STREET		WALNUT CREEK	CA 94526 415-944-9277
EDC - EDUCOM, INC.	901 S. 129TH		TACOMA	WA 98444 206 531 8767
EDU - EDUCATIONAL SOFTWARE INC	901 S. 129TH 4565 CHERRYVALE AVE. 125 WILBUR PLACE 2755 CAMPUS DRIVE 100 W. 22ND ST. 122 BANGOR STREET PO BOX 3185 PO BOX 881		SOQUEL	CA 95073 408 476 4901 NY 11716
ELC - ELECTRA CONCEPTS ELE - ELECTRONIC ARTS	2755 CAMPILE DETUE		BOHEMIA SAN MATED	CA 94403 415 571 7171
ELI - ELECTRONIC LAB INDUSTRIES	100 W. 22ND ST.	BOX 7167	BALTIMORE	MD 21218 301 366 8138
EME - EMERALD SOFTWARE	122 BANGOR STREET		LINDENHURST	NY 11757 516-226-5849
ENG - ENGLISH SOFTWARE	PO BOX 3185		REDONDO BEACH	CA 90277 213 372 3440
ENT - EN-TECH SOFTWARE	PO BOX 881		SUN VALLEY WALTHAM	CA 91352 213-764-6833 MA 02254 617-891-6602
EPD - ELECTRONIC PROTECTION DEVICES INC.	53 REDRUCK LANE		PAMONA	CA 91766 714 623 8314
EPS - EPSON AMERICA INC.	3415 KASHIWA STREET		TORRANCE	CA 90505 213-539-9140
EPY - EPYX/ AUTOMATED SIMULATIONS INC.	1043 KIEL COURT		SUNNYVALE	CA 94086
ESI - ELECTRONIC SOFTWARE INC.	401 S. WOODWARD	SUITE 441	BIRMINGHAM SALINA	MI 48011 313 258 5455 KS 67402 913 827 0629
EST - ESTES ENGINEERING INC.	PO BOX 1A1		LEONIA	NJ 07605 201 568 6250
FAB - FABTRONICS	51 QUARRY ST		BROCKPORT	NY 14420 716 637 6371
FAN - FANTASY COMPUTERWARE	BOX 451		SIOUX FALLS	SD 57101 605-335-7684
FED - FEDERAL HILL SOFTWARE	825 WILLIAM ST.		BALTIMORE CEDAR RAPIDS	MD 21230 301 685 6254 IA 52404 FL 33178 305 888 1000
FER - FERIN ENTERPRISES	6310 UNDERWUUD AVE. 5.W.		MIAMI	FL 33178 305 888 1000
FIN - FINETECH FURNITURE INC.	PO ROY 280		WOODBURY	TN 37190 615 765 5021
FIR - FIRST STAR SOFTWARE INC	22 EAST 41ST STREET		NEW YORK	NY 10017 212 532 4666
FLP - FLIPTRACK LEARNING SYSTEMS	999 MAIN	SUITE 200	GLEN ELLYN	IL 60137 AZ 85261 602 948 9817
FOV - FOXVILLE COMMUNICATIONS CORP.	7741 E. GRAY RUAD / SUITE #1	7 PU BUX 2419	SCOTTSDALE DEER PARK	AZ 85261 602 948 9817 TX 77536 713-473-6723
ERE - ERENCH STIK SMUUTHHORE	PO BOX 207		CANNON FALLS	MN 55009 507-263-4821
FRO - FRONTLINE PRODUCTS	1915 W. GLENOAKS BOULEVARD	SUITE 200	GLENDALE	CA 91201 213 845 8139
FUN - FUNSOFT	28611 CANWOOD ST.		AGOURA	CA 91301 213 991 6540
GAL - GALACTIC SOFTWARE	PU BUX 10516		SAN JOSE SANTA BARBARA	CA 95157 408-247-4434 CA 93101 805 963 3487
EPD - ELECTRONIC PROTECTION DEVICES INC.  EPI - ELECOMP PUBLISHING INC.  EPS - EPSON AMERICA INC.  EPY - EPYX/ AUTOMATED SIMULATIONS INC.  ESI - ELECTRONIC SOFTWARE INC.  EST - ESTES ENGINEERING INC.  F/2 - F/22 PRESS  FAB - FABTRONICS  FAN - FANTASY COMPUTERWARE  FED - FEDERAL HILL SOFTWARE  FER - FERIN ENTERPRISES  FID - FIDELITY ELECTRONICS LTD.  FIN - FINETECH FURNITURE INC.  FIR - FIRST STAR SOFTWARE INC.  FIR - FOXVILLE COMMUNICATIONS CORP.  FOX - FOXVILLE COMMUNICATIONS CORP.  FOX - FOXSOFT (DIVISION OF FOXFIRE SYSTE FRE - FRENCH SILK SMOOTHWARE FRO - FRONTLINE PRODUCTS  FUN - FUNSOFT  GAL - GALACTIC SOFTWARE  GAM - GAMESTAR INC.  GAT - GATOS INTERNATIONAL	218 ROSE		SAN FRANSISCO	CA 94102
UNI - UNIUS INTERNATIONAL				HERITAMORI OR CAMINA CHOICE HORIZONIA DE TRANS
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GCC .	- GENESIS COMPUTER CORP.	1444 LINDEN STREET		BETHLEHEM	PA 18018	215-861-0850
GEM .	- GEMTECH LABORATORIES	731 BUNDABERG LANE		RURAL HALL	NC 27045	
PLU	- PLUNCESIEK CUMPUIEK	1 BLACKBURN CENTER	CHITE 711	DEDUCESTER	TA 01930	213 463 2345
GNT	- GENTRY SOFTWARE	9421 WINNETKA AVE	30112 /11	CHATCHORTH	CA 91311	800 423 5916
6PM	- EP MICROSYSTEMS	72-31 67TH PLACE		GLENDALE	NY 11385	500 120 0710
GRA	- GRAPEVINE SOFTWARE INC.	PO BOX 14843		LENEXA	KS 66215	913 888 0501
GSS	- GOSUB OF SLIDELL	PO BOX 1781		SLIDELL	LA 70459	504-641-8307
GIC	- BENEVA TECHNOLOGIES CORP.	14 COMMERCE DRIVE	CHITE EAS	CRANFORD	NJ 07016	201 276 1144
HLH .	- HIH ENTERPRISES	DEPT 123CK STREET	SOLIE 304 SOSA NORTH AIST STRE	MII MOIKEE	UH 90/12-	
HAC	- HACKER'S HARDWARE	POB 7933	DOOD NORTH TIST SINE	SAN DIEGO	CA 92107	619 224 2147
HAN	- HANDIC SOFTWARE INC.	FELLOWSHIP BUSINESS CENTER	520 FELLOWSHIP ROAD/	MOUNT LAUREL	NJ 08054	609 663 0660
HAS	- HAYDEN BOOK COMPANY INC.	50 ESSEX STREET		ROCHELLE PARK	NJ 07662	800 631 0856
HAY	- HATDEN SUFTWAKE	NEDT COMPLITED CAT DC_D_OT	1250 ATH AVE	LUWELL CAN DIECO	WW 01822	800 543 1918
HES	- HUMAN ENGINEERED SOFTWARE	150 NORTH HILL DRIVE	1230 DIN HYL.	BRISBANE	CA 94005	800 227 6703
HIN	- DR. JERRY L. HINTZE	865 EAST 400 NORTH		KAYSVILLE	UT 84037	801 546 0445
HOR	- HORIZON SOFTWARE	SUITE 597	24-16 STEINWAY ST.	ASTORIA	NY 11103	
HUI	- HUI DAIA	AT CODDODATE DI ATA	CULTE 202	SANTA MUNICA	CA DOLLA	213 393 6405
HIIT	- HUTCHCRAFT ASSOCIATES	1132 DRYDEN ROAD	3011E 202	ITHACA	NY 14850	607-347-4782
HYT	- HYTEC SYSTEMS	PO BOX 446		WEST LINN	OR 97068	503-636-6888
ICD	- INSTITUTIONAL COMPUTER DVLPMNT. CO	2951 MERRICK RD.	DEPT. C8	BELLMORE	NY 11710	800 645 4710
IDC	- INFO-DESIGNS	6905 TELEGRAPH ROAD	DODH 407	BIRMINGHAM	MI 48010	313-540-4010
INC	- IUN INTERNATIONAL INC.	1240-1 1 OGAN AUF	KUUM 40/	COCTA MECA	NY 10001	714 641 0181
INF	- INFOCOM INC.	55 WHEELER STREET		CAMBRIDGE	MA 02138	617-492-1031
INI	- INFINITY SOFTWARE	536 CURIE DR.		SAN JOSE	CA 95123	408 629 6208
INK	- INKWELL SYSTEMS	PO BOX 85152 MB290	7760 VICKERS ST.	SAN DIEGO	CA 92138	619 268 8792
INP	- INPUT SYSTEMS INC.	25101 SW 194TH AVE.		HOMESTEAD	FL 33031	305 245 3141
ING	- INTELLIGENT STATEMENTS	1021 STHNFURD STREET		SANTA MUNICA	LA 90404	800 824 3044 800 334 5470
INT	- INTERESTING SOFTWARE	21101 S. HARVARD BLVD.		TORRANCE	CA 90501	213-328-9422
IPF	- IPF PUBLICATIONS	146 COUNTRY CLUB LANE		POMONA	NY 10970	914 354 5585
IPS	- INNOVATIVE PERIPHERAL SYSTEMS	10570 S.W. WALKER RD.		BEAVERTPM	OR 97005	503 684-0156
151	- 1515 HATHUK DIBITAL PRODUCTIONS	6184 VEKDURA AVE.		GOLETA TEVAC	CA 93117	805-964-6335
.745	- JASON-RANHFIM	SRO PARROTT ST		CAN INCE	PA 18046	215 398 0434 800 421 7731
JIN	- JINI MICRO-SYSTEMS	PO BOX 274		RIVERDALE	NY 10463	212-796-6200
JOU	- JOU LABORATORIES	2116 E. ARAPAHO	BOX 371	RICHARDSON	TX 75081	
JUS	- JUST ANOTHER SOFTWARE CO.	DEPT. C7	PO BOX 893	PALO ALTO	CA 94301	
TAR	- NAR EFECTIONICS	520 PALM SPRINGS BLUD	5011E 1	INDIAN HADDOUD DEA	CA 95825	916 483 0709
KID	- KIDWARE	BOX 1664	#302	IDAHO FALLS	ID 83401	
KIW	- KIWISOFT	18003-L SKYPARK SOUTH		IRVINE	CA 92714	714 261 5114
KUA	- KOALA TECHNOLOGIES CORP.	3100 PATRICK HENRY DRIVE		SANTA CLARA	CA 95052	800-562-2327
KRF	- KREII SOFTWARE CORP	1320 STONY BROOK BOAN		SALI LAKE CITY	UI 84121	516-751-5139
KSC	- KRAFT SYSTEMS COMPANY	450 W. CALIFORNIA AVE.		VISTA	CA 92083	619-724-7146
L&L	- L&L ENGINEERING	PO BOX 5891		KENT	WA 98031	206 631 3383
LAW	- LAWCO LTD.	PO BOX 1337		CUPERTINO	CA 95015	408 733 0739
LED	- LEADING FREE PRODUCTS INC	225 THENPIPE STREET		CANTON	MA 02021	215 643 7666 800 343-6833
LEN	- LOGGINS ENTERPRISES	PO BOX 10265		BRADENTON	FI 34282	NO PHONE
LIM	- LIMBIC SYSTEMS INC.	1056 ELWELL COURT		PALO ALTO	CA 94303	415 424 0168
LIN	- LINK MARKETING	219 1ST. AVE. N.	SUITE 215	SEATTLE	WA 98109	800 323 1717
LUE	- LITTLE WIZHKU MANUFACTURING	LO ROY 125		MILWAUKEE	WI 53201	414 968 2558
L06	- GENESIS COMPUTER CORP GENTECH LABORATORIES - GLOUCESTER COMPUTER - GAMMA RESEARCH - GENTRY SOFTWARE - EP MICROSYSTEMS - GRAPEVINE SOFTWARE INC GOSUB OF SLIDELL - GENEVA TECHNOLOGIES CORP GATOR SOFTWARE - HAH ENTERPRISES - HAH ENTERPRISES - HAYDEN BOOK COMPANY INC HAYDEN BOOK COMPANY INC HAYDEN SOFTWARE INC HAYDEN SOFTWARE INC HAYDEN SOFTWARE - HARCOURT BRACE JOVANOVICH INC HUMAN ENGINEERED SOFTWARE - DR. JERRY L. HINTZE - HORIZON SOFTWARE - HOT DATA - HIGH TECH ENTERPRISES - HUTCHCRAFT ASSOCIATES - HUTCHCRAFT ASSOCIATES - HYTEC SYSTEMS - INSTITUTIONAL COMPUTER DVLPMNT. CO - INFO-DESIGNS - ION INTERNATIONAL INC INTEGRATED CONTROLS - INFOCOM INC INFOCOM INC INFORUNNER CORPORATION - INTELLIGENT STATEMENTS - INFUT SYSTEMS INC INFORUNNER CORPORATION - INTELLIGENT STATEMENTS - INFORUNNER CORPORATION - INTELLIGENT STATEMENTS - INDUT SYSTEMS INC INFORUNNER CORPORATION - INTELLIGENT STATEMENTS - JANCE ASSOCIATES INC JASON-RANHEIM - JINI MICRO-SYSTEMS - JUST ANOTHER SOFTWARE - IF PUBLICATIONS - JANCE ASSOCIATES INC JASON-RANHEIM - JINI MICRO-SYSTEMS - JUST ANOTHER SOFTWARE CO JUST ANOTHER SOFTWARE CO KAFL SYSTEMS COMPANY - KALL SOFTWARE CORP KRAFT SYSTEMS COMPANY - LAL ENGINEERING - LAWCO LTD LEGAL BYTE SOFTWARE - LEADING EDGE PRODUCTS INC LOGISTIC ENGINEERING - LAWCO LTD LEGAL BYTE SOFTWARE - LEADING EDGE PRODUCTS INC LOGISTIC ENGINEERING ASSOCIATES - LOGISTIC ENGINEERING ASSOCIATES - LOGISTIC ENGINEERING ASSOCIATES - LOGISTIC ENGINEERING ASSOCIATES - LUMA SOFTWARE - LUND ON SOFTWARE - LUND ON SOFTWARE - LUND SOFTWARE - LUND ON SOFTWARE - LUND S	3192 LAUREL CANYON RD		SANTA RAPRADA	CA 97105	619 562 1047 805-687-0205
LON	- LONDON SOFTWARE	374 WILDWOOD AVE.		PIEDMONT	CA 94611	415 893 1090
LPP	- LEGEND PERIPHERAL PRODUCTS	14722 OXNARD ST.		VAN NUYS	CA 91401	800 321 4484
LUN	- LUNA SUFIMARE	PO BOX 26922		SAN JOSE	CA 95159-6	408-378-7793
MAM	- MAM SOFTWARE COMPANY	3790 FL CAMING DEAL	CHITE 2007	TINLEY PARK	IL 60477 CA 94306	312 429 1915
MAC	- MAGIC CARPET	PO BOX 35115	30112 2003	PALO ALTO	AZ 85069	
MAD	- MADISON COMPUTER	1825 MONROE		MADISON	WI 53711	608 255 5552
MAG	- MAGREEABLE SOFTWARE INC.	5925 MAGNOLIA LANE		PLYMOUTH	MN 55442	612-559-1108
MAN	- MAYELL CORROBATION OF AMERICA	8301 S. 180TH. ST.	/A AVEADA BALLE	KENT	WA 98032	206 251 5500
MCA .	- MICROCOMPUTER ACCESSORIES	1545 PONTING AUF	OU DYLORD DRIVE	MOONACHIE LOS ANGELES	NJ 07074	201-440-8020
MCL .	- MICOL SYSTEMS	PO BOX 5150		WHITTIER	CA 90025 CA 90607-5	213 478 7164
MCR .	- MICROCLEAR	PO BOX 9368		RAYTOWN	MD 64133	7 11 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MUC.	- MASIER CUNIKOL SOFTWARE INC.	PO BOX 26714		SALT LAKE CITY	UT 84126	800 624 5596
MED .	- MICRO-FD INC	PO BOY 24154		WEBSTER	NY 14580	800 833 7384
MEG .	- MEGA SOFTWARE	PO BOX 2398		MINNEAPOLIS KLAMATH FALLS	MN 55424 OR 97601	612-926-2292
MEL .	LINBIC STSTEMS INC.  LINK MARKETING  LINTLE WIZARD MANUFACTURING  LOGISTIC ENGINEERING ASSOCIATES  LOGOS SOFTWARE  LONDON SOFTWARE  LEGEND PERIPHERAL PRODUCTS  LUNA SOFTWARE  LYNN COMPUTER SERVICE  MAN SOFTWARE COMPANY  MAGIC CARPET  MADISON COMPUTER  MAGREEABLE SOFTWARE INC.  MANNESMANN TALLY  MAXELL CORPORATION OF AMERICA  MICROCOMPUTER ACCESSORIES  MICROCLEAR  MICROCLEAR  MASTER CONTROL SOFTWARE INC.  MICROCLEAR  MICROCLEAR  MERRITT SOFTWARE  MELCOMP  MERRITT SOFTWARE  MELCHER SOFTWARE	PO BOX 1085		MELBOURNE	FL 32901	
MER .	- MEKKIII SUFTWARE INC.	PO BOX 1504		FAYETTEVILLE	AR 72702	501 442 0914
uco .	DELUNER SUFTWHEE	PU BUX 213		MIDLAND	MI 48640	517 631 7607
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MGR - MICROGRAMS INC. MGS - MEGASOFT LTD. MIC - MICRO SOLUTIONS INC. MID - MIDWEST MICRO INC. MIF - MICROCRAFT SYSTEMS INC. MIF - MICROCRAFT SYSTEMS INC. MIL - MILTON BRADLEY MIN - MINDWORKS MIO - MIDWIGHT-OIL MIP - MICROTECHNIBUES MIR - MIRAGE CONCEPTS INC. MIS - MIS MII - MICROLAB INC. MLP - MISSING LINK PRODUCTS MMG - MMG MICRO SOFTWARE MOS - MOSAIC MPH - MICROPHYS PROGRAMS MPS - MICROPROSE SOFTWARE MRC - MICROLOG CORPORATION MSA - MSA MSD - MICRO SYSTEMS DEVELOPMENT INC. MSM - MICRO SYSTEMS DEVELOPMENT INC. MSM - MICRO SIMULATIONS MSP - MICROSPEC MTI - MICRON TECHNOLOGY INC. MTS - MICROTECHNIC SOLUTIONS INC. MMD - MICRO-WARE DISTRIBUTING INC. MWB - MICRO MORLD ELECTRONIX INC. MWB - MIDWEST SOFTWARE MXI - MAXIMUS INC. MYS - MYSTIC SOFTWARE N&B - NIBBLES & BITS INC. NAN - NANOS SYSTEMS CORPORATION NAP - NATIONAL PROGRAMMING AND SOFTWARE NOC - NOC NEB - NEBS COMPUTER FORMS NEL - NELSON SOFTWARE NEW - NEWFORT CONTROLS NLI - NEW LEAF INC. NUF - NUFLER NEW - NEWFORT CONTROLS NLI - NEW LEAF INC. NUF - NUFLER OBB - OBSORNE/MCGRAW-HILL OSS - OPTIMIZED SYSTEMS SOFTWARE INC. OTI - OTIO SYSTEMS PAC - PACIFIC COAST SOFTWARE CORP. PAC - PARSEC RESEARCH PAR - PARKER BROTHERS INC.	PO BOX 2146		LOVES PARK	IL 61130 815-965-2464
MIC - MICRO SOLUTIONS INC	SHITE 606	SAS STH AUF	NEW YORK	NY 10017 212-222-6687
MID - MIDWEST MICRO INC.	311 W. 72ND ST.	OTO OTH MICE	KANSAS CITY	MO 64114 816-333-7200
MIF - MICROCRAFT SYSTEMS INC.	POB 1109		ANN ARBOR	MI 48106 313 996 1297
MIN - MINUMUNG  WIT - WITION READIFY	DIE 2	PUX 280	HINTERS	ΓΔ 95494 914 795 2322
MIO - MIDNIGHT-DIL	PO BOX 1808	DUX ZUN	BEAVERTON	OR 97075
MIP - MICROPERIPHERAL CORP.	2565 152 AVE NE		REDMOND	WA 98052 206 881 7544
MIG - MICROTECHNIQUES	PO BOX 192		CHESTERFIELD	MO 63017
MIR - MIRAGE CUNCEPIS INC.	4055 W. SHAW #108		BUILDER CREEK	CA 95006 408-338-9546
MLI - MICROLAB INC.	2699 SKOKIE VALLEY ROAD		HIGHLAND PARK	IL 60035 312 433 7550
MLP - MISSING LINK PRODUCTS	PO BOX 6460		COLORADO SPRINGS	CO 80934 303 473 8909
MMG - MMG MICRO SOFTWARE	PO BOX 131		MARLBORO CITY	NJ 07/46 201 431 34/2
MDH - MICROPHYS PROFRAMS	MARKETINE DIVISION	1737 WEST OND STREET	BROOK! YN	NY 11223 212-375-5151
MPS - MICROPROSE SOFTWARE	1 CARIBOU COURT	Tror wedt zine dineer	PARKTON	MD 21120 301 357 4739
MRC - MICROLOG CORPORATION	18713 MOONEY DRIVE		GAITHERSBURG	MD 20789 301 258 8400
MSA - MSA	3445 PEACHTREE RD. NE	CHITE 104	ALLANIA	TY 75220 900-527-5285
MSM - MICRO SIMILATIONS	15A10 FOY SPRINGS	30116 104	HOUSTON	TX 77084
MSP - MICROSPEC	PO BOX 863085		PLANO	TX 75086 214-867-1333
MTI - MICRON TECHNOLOGY INC.	2805 EAST COLUMBIA ROAD		BOISE	ID 83706 208-383-4000
MTS - MICROTECHNIC SOLUTIONS INC.	PO BOX 2940		NEW HAVEN	NT 07405 201-838-9027
MWF - MICRO WORLD FLECTRONIX INC.	3333 SOUTH WADSWORTH BLVD.	#C105	LAKEWOOD	CO 80227 303-934-1973
MWS - MIDWEST SOFTWARE	BOX 214		FARMINGTON	MI 48024 313-477-0897
MXI - MAXIMUS INC.	6723 WHITTIER AVENUE		MCLEAN	VA 22101 800 368 2152
MYS - MYSTIC SOFTWARE	PO BOX 536		LAKESIDE	CA 92040-0 619-443-99/6
NAM - NAMOS SYSTEMS CORPORATION	PO BOX 2044 PO BOX 24344		SPEEDWAY	IN 46224 317 244 4078
NAP - NATIONAL PROGRAMMING AND SOFTWARE	PO BOX 9204 DEPT C10		RENTON	WA 98055 206 228 1249
NAV - NAVIC SOFTWARE			NORTH PALM BEACH	FL 33408 B00 327 2133
NDC - NDC	117 WEST 23RD		INDEPENDENCE	MU 64055 816-254-0400
NER - NERS COMPOSER FORMS	12 SUUTH STREET		ST PAIII	MN 55119 612 738 1080
NEW - NEWPORT CONTROLS	2232 UDDEN CI.		BISHOP	CA 93514 408 358 3430
NLI - NEW LEAF INC.	120 LYNNHAVEN		BELLEVILLE	IL 62223
NUF - NUFEKOP	PO BOX 156		SHADY COVE	OR 97539-0 503-878-2113
ODE - ODESTA CORPORATION	3186 DOOLITTLE DRIVE		NOK I HEKUUK	IL 60062 800 323 3423
OKI - OKIDATA	532 FELLOWSHIP ROAD		MT. LAUREL	NJ 08054 609 235 2600
OMN - OMNI UNLIMITED	105 S. LOS ROBLES		PASADENA	CA 91101 213-795-6664
ORA - ORANGE MICRO INC.	1400 N. LAKEVIEW AVE.	DEDT 1207	ANAHEIM	CA 9280/ /14 //9 2//2
UKI - UKIUN SUFIWAKE	PU BUX 2488	DEPT 1283	HUBUKN RERKELV	CA 94710 800 227 2895
OSS - OPTIMIZED SYSTEMS SOFTWARE INC.	10379 LANSDALE AVENUE		CUPERTINO	CA 95014 408-446-3099
OTT - OTTO SYSTEMS PAC - PACIFIC COAST SOFTWARE CORP.	15225 SOCORRO WAY		SAN DIEGO	CA 92129
PAC - PACIFIC COAST SOFTWARE CORP.	7334 HOLLISTER AVE.		SANTA BARBARA FREMONT	CA 93117 805 685 8282 CA 94538 415 651 3160
PAE - PARSEC RESEARCH PAR - PARKER BROTHERS INC.	DRAWER 1766-C		SALEM	MA 617 927 7600
PAS - PALACE SUFTWARE	62-64 KENSINGTON HIGH STREET		LUNDUN	MR / FURTH FOUNDAM A2/ 9
PCT - PC TECHNOLOGY	PO BOX 1018		BALLWIN	MD 63011 314-968-6557
PDI - PROGRAM DESIGN INC. PEK - PEEK MAGAZINE	95 EAST PUTNAM AVENUE 4145 BROOKSIDE BLVD.		GREENWICH CLEVELAND	CT 06830 203 661 8799 OH 44135
PEN - PENGUIN SOFTWARE	830 FOURTH AVE.	PO BOX 311	GENEVA	IL 60134 312 232 1984
PER - PERFORMANCE MICRO PRODUCTS	770 DEDHAM STREET	S-2	CANTON	MA 02021-0 617-828-1209
PES - PERSIMMON PERIPHERALS	RTE 2	BOX 2306A	CLAYTON	GA 30525 NC 27514 919-967-0861
PGI - PROGRAMMER'S INSTITUTE PHA - PHANTOM SOFTWARE	DIV. OF FUTURE HOUSE - DEPT. 1116-A 8TH ST.	SUITE 155	CHAPEL HILL MANHATTAN BEACH	NC 27514 919-967-0861 CA 90266 213 379 8686
PHP - PRENTICE HALL PUBLISHING	GENERAL BOOK MARKETING	BOX 500	ENGLEWOOD CLIFFS	NJ 07632 201 592 2663
PIC - PICTURE-PERFECT	7321 FOUNTAIN AVE.		LOS ANGELES	CA 90046
PIX - PIXELL SOFTWARE	6595 W. MISSISSIPPI PL.	DEDT C	LAKEWOOD	CO 80226 303-922-9197
PLA - PLAYGROUND SOFTWARE PMI - PMI	PO BOX 3470 PO BOX 87	DEPT. C	CHAPEL HILL BUCKFIELD	NC 27514 800 334 SOFT ME 04220 207 336 2500
PMP - PM PRODUCTS	4455 TORRANCE BLVD.	# 177	TORRANCE	CA 90503 213 379 9471
POR - POWERLINE SOFTWARE	PO BOX 635		NEW HARTFORD	NY 13413
POW - POWERBYTE SOFTWARE	2 CHIPLEY RUN	DUTTE 400	WEST BERLIN	NJ 08091 609-346-3063
PPI - PERSONAL PERIPHERALS, INC. PRA - PRACTICAL APPLICATIONS	MERRICK PARK / 930 N. BELTLIN BOX 336	5011E 120	IRVING EDWARDSBURG	TX 75061 214 790 1440 MI 49112
PRE - PRECISION SOFTWARE LIMITED	PARK HOUSE 4 PARK TERRACE	WORCESTER PARK	SURREY	KT ENGLAND 01-330-7166
PRG - PROGRESSIVE PERIPHERALS & SOFTWARE	2186 SOUTH HOLLY	SUITE 2	DENVER	CD 80222 303 759 5713
PRI - PRINCETON EDUCATIONALG SOFTWARE	195 NASSAU ST.	PO BOX 1317	PRINCETON	NJ 08542 201 683 0044
PRL - PRO-LINE SOFTWARE PRO - PROFESSIONAL SOFTWARE INC.	755 THE QUEENSWAY EAST 51 FREMONT STREET	UNIT 8	MISSISSAUGA NEEDHAM	ON L4Y 4C5 416 273 6350 MA 02194 617-444-5224
PRS - PRS	DEPT. C	PO BOX 32	AMARGOSA VALLEY	NV 89020
PRU - PROGRAMMERS GUILD	PO BOX 220		LACRESCENT	MN 55947
PSX - PSYCHRONIX	BOX 422		LOGAN	UT 84321 801-752-2067
PSY - PSYCOM SOFTWARE INTERNATIONAL	2118 FOREST LAKE DRIVE		CINCINNATI	OH 45244 513-474-2188
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PTE - PTERODACTYL SOFWARE PTI - PRECISION TECHNOLOGY INC. PTM - PACIFIC TRI MICRO PUB - PUBLIC DOMAIN INC. PYR - PYRAMID SOFTWARE INTERNATIONAL PTL - PUZZLE KING, LTD. QIN - QUALITY INPUT QSF - Q-SOFT QUA - QUALITY COMPUTER QUI - QUICKSILVA INC. R&L - R&L PRODUCTS RAD - RADIX MARKETING RAI - RAINBOW COMPUTER CORP. RAKK - RAK ELECTRONICS RAM - RAMIAK RAN - RANDOM ACCESS MARKETING RAP - RAPIDWRITER RAY - RAYMAC SOFTWARE GROUP RDC - ROCKWARE DATA CORPORATION RDS - READER'S DIGEST RED - RED-SHIFT SOFTWARE REH - R. E. HUFFMAN REN - RENSOFT SOFTWARE SYSTEMS RES - RESTON SOFTWARE RHI - RHIANNON RLR - RAYMOND L. REYNOLDS ROM - ROMOX INC. ROT - ROYAL DAK TRADING RSH - ROBERT SHANNON RSL - REES SOFTWARE LABORATORIES RTC - RICHVALE TELECOMMUNICATIONS S&G - S&G CONSULTING S&G - SACHS ENTERPRISES SAK - SAKATA U.S.A. CORP. SAU - SAURA COMPUTER SOFTWARE & CONSULTI SAW - SOFT-AWARE SCA - SCARBOROUGH SYSTEMS INC. SCH - SCHOLASTIC INC. SCI - SCIENTIFIC & EDUCATIONAL SOFTWARE SCR - SCREENPLAY SDI - SOFTWARE DESIGN INC. SCP - SYDNEY DATA PRODUCTS INC. SED - SYDNEY DATA PRODUCTS INC. SED - SEMIENT SOFTWARE INC. SCD - SEQUENTIAL CIRCUITS, INC. SED - SEMIENT SOFTWARE INC. SED - SENTIENT SOFTWARE INC. SED - SETTER ON-LINE INC. SIM - SIM COMPUTER PRODUCTS INC.	200 BOLINAS ROAD	#27 PO BOX 538	FAIRFAX	CA 94930	415-485-0714 801-487-6266
PTM - PACIFIC TRI MICRO	58 PLAZA SQUARE	SUITE J	ORANGE	CA 92666	714 771 4038
PUB - PUBLIC DOMAIN INC.	5025 RANGELINE RD.	DEPT. IN1	W. MILTON	OH 45383	513 339 1725
PZL - PUZZLE KING. LTD.	PO BOX 1337		CUPERTINO	CA 95015	408 733 0739
QIN - QUALITY INPÚT	309 W. BEAUFORT		NORMAL	IL 61761	309 454 1061
QUA - QUALITY COMPUTER	801 S. VICTORIA	SUITE 105	VENTURA	MN 55416 CA 93003	805-656-1330
QUI - QUICKSILVA INC.	426 WEST NAKOMA	-31.2	SAN ANTONIO	TX 78216	512 492 8054
R&L - R&L PRODUCTS RAD - RADIY MARKETING	BOX 26A89 5223 W. 73RD. ST		LOS ANGELES MINNEAPOLIS	CA 90026 MN 55435	612 831-1088
RAI - RAINBOW COMPUTER CORP.	490 LANCASTER AVE.		FRAZER	PA 19355	215-296-3474
RAK - RAK ELECTRONICS	PO BOX 1585	TITT CHILL WILL A CTO	ORANGE PARK	FL 32073	0005-094-505
RAN - RANDOM ACCESS MARKETING	PO BOX 1561	OTOO DOUTH HOLLH SIK	NEWPORT BEACH	CA 92663	714-640-5119
RAP - RAPIDWRITER	91 LONG HILL RD.		LEVERETT COEFY	MA 01054	413-549-3744
RDC - ROCKWARE DATA CORPORATION	10525 BARRYWOOD DRIVE		DALLAS	TX 75230	1 800 527 41
RDS - READER'S DIGEST	MICROCOMPUTER SOFTWARE DIV.		PLEASANTVILLE	NY 10570	800 431 8800
REH - R. E. HUFFMAN	9607 DOGWOOD LANE		MUNSTER	IN 46321	
REN - RENSOFT SOFTWARE SYSTEMS	PO BOX 170		CORAM	NY 11727	000 771 6770
RES - RESTON SOFTWARE	11480 SUNSET HILLS RD.		RICHMOND	VA 22090 VA 23225	804 272 7770
RLR - RAYMOND L. REYNOLDS	384 HYACINTH ST.		FALL RIVER	MA 02720	DOT LIL IIIV
ROM - ROMOX INC.	476 VANDELL WAY		CAMPBELL	CA 95008	
RSH - ROBERT SHANNON	33175 OCEANVIEW DRIVE		FORT BRAGE	CA 95437	707 964 4440
RSL - REES SOFTWARE LABORATORIES	PO BOX 763		CUCAMONGA	CA 91730	714 981 5925
S&E - S&E CONSULTING	3349 GLENDALE DR.		BENSALEM	PA 19020	416-884-4165
S&S - SIGHT & SOUND MUSIC SOFTWARE INC.	3200 S. 166TH. ST.		NEW BERLIN	WI 53151	800 558 0910
SAC - SACHS ENTERPRISES	BOX 1182		LAKE ARROWHEAD	CA 92352	NO PHONE
SAU - SAURA COMPUTER SOFTWARE & CONSULTI	7510 FOXRIDGE WAY		ANCHORAGE	AK 99502	907-272-1373
SAW - SOFT-AWARE	PO BOX 725		GLENDORA	CA 91740	800 882 8222
SCH - SCHOLASTIC INC.	PO BOX 947	EDUCATION PLAZA	HICKSVILLE	NY 11802	000 002 0222
SCI - SCIENTIFIC & EDUCATIONAL SOFTWARE	PO BOX 54	00 DOV 7550	DAYTON	OH 45420	000 774 F470
SDI - SOFTWARE DESIGN INC.	PO BOX 570	. An Rny 2228	WATERLOO	IA 50704	800 553 0002
SDP - SYDNEY DATA PRODUCTS INC.	\$129 444 CAMINO DEL RIO SOUTH		SAN DIEGO	CA 92108	619-298-5886
SEI - SEI ENTERPRISES INC	17 SERPI RD.		ASPEN MILLS	NY 10930 CO 81612	303 925 9293
SEQ - SEQUENTIAL CIRCUITS, INC.	3051 NORTH FIRST STREET		SAN JOSE	CA 95134	408 946 5240
SEW - SKYLES ELECTRIC WORKS	2316 SOUTH WHISMAN ROAD		MOUNTAIN VIEW	CA 94041	800-227-999B
SFL - SOFTLAW	9072 LYNDALE AVE. SO.		MINNEAPOLIS	MN 55420	800 328 2737
SFP - SOFTPEOPLE INC.	631 CLEVELAND AVENUE SO.		SAINT PAUL	MN 55116	800 447 3273
SFS - SOFTSYNC INC. SFT - SOFTRON INC. SIE - SIERRA ON-LINE INC. SIM - SIM COMPUTER PRODUCTS INC.	2067 BROADWAY	SUITE 27	NEW YORK	NY 10016 NY 10023	212 490 0077
SIE - SIERRA ON-LINE INC.	SIERRA ON-LINE BLDG.		COARSEGOLD	CA 93614	209-683-6858
SIM - SIM COMPUTER PRODUCTS INC.	1100 E. HECTOR ST.		WHITEMARSH ROCHESTER	PA 19428 NY 14623	215-825-4250
SIR - SIRIUS SOFTWARE INC.	10364 ROCKINGHAM DRIVE		SACRAMENTO	CA 95827	916-366-1195
SKY - SKYLIGHT SOFTWARE	22 MILLER ST.		BELFAST PALO ALTO	ME 04915 CA 94303	207 338 1410 415-964-8201
SMI - STAR MICRONICS INC.	1120 EMPIRE CENTRAL PLACE	SUITE 216	DALLAS	TX 75247	214-631-8560
SFT - SOFTRON INC.  SIE - SIERRA ON-LINE INC.  SIM - SIM COMPUTER PRODUCTS INC.  SIP - SIMPLEWARE  SIR - SIRIUS SOFTWARE INC.  SKY - SKYLIGHT SOFTWARE  SMA - SMALL SYSTEMS ENGINEERING  SMI - STAR MICRONICS INC.  SMN - SIEMENS COMMUNICATION SYSTEMS INC.  SMO - SMOKY MOUNTAIN SOFTWARE	OFFICE TERMINALS DIVISION	240 EAST PALAIS ROAD	ANAHEIM	CA 92805 NC 28712	714 991 9700 704 883 2595
SMO - SMOKY MOUNTAIN SOFTWARE SMS - SPELLMASTER SYSTEMS SOFTWARE	54 WEST MAIN STREET 6219 THIRTEENTH AVENUE SOUTH		BREVARD GULFPORT	FL 33707	813-347-6733
SMS - SPELLMASTER SYSTEMS SOFTWARE SMX - SIMPLEXSOFT LTD. SNB - SUNBURST EDUCATION SND - SUNDEX SOFTWARE CORP. SNS - SUNSOFT	PO BOX 445		MARION	IA 52302	
SNB - SUNBURST EDUCATION	39 WASHINGTON AVE.		PLEASANTVILLE BOULDER	NY 10570 CO 80301	800 431 1934 303 440 3600
SNS - SUNSOFT	BOX 99		ALTURAS	FL 33820	
SNS - SUNSOFT SNX - SYNTAX SOFTWARE INC. SOC - SOUTHERN CASE INC. SOE - SOUND EXPANSIONS SOF - SOFTLOCK TECHNOLOGY SOL - SOLIDUS INTERNATIONAL CORP.	33 ELMHURST AVE.	SUITE 502	WILLOWDALE	ON M2N 668 NC 27611	416-221-8008 800 334 0551
SUC - SOUTHERN CASE INC.	PO BOX 2814/ PO BOX 53		RALEIGH HOUSE SPRINGS	MO 63051	314 677 4295
SOF - SOFTLOCK TECHNOLOGY	13031 SAN ANTONIO DRIVE		NORWALK	CA 90650	213 868 7820
SOL - SOLIDUS INTERNATIONAL CORP.	#204 4202 GUIDE MERIDIAN 19123 HAMLIN STREET	SUITE 4 / DEPT. P5	BELLINGHAM RESEDA	WA 98226 CA 91335	206-734-3744
SOP - SOPHWARE SOR - SOURCE TELECOMPUTING	1616 ANDERSON ROAD 833 GARFIELD AVE		MCLEAN	VA 22102	800 336 3330
SOR - SOURCE TELECOMPUTING SOT - SOTA ENTERPRISES INC.	833 GARFIELD AVE	SUITE 101	SOUTH PASADENA MCKINNEY	CA 91030 TX 75069	214-542-0278
SOU - SOUTHERN SOLUTIONS SOW - SOFTWAVE	PO BOX P 156 DRAKES LANE		SUMMERTOWN	TN 38483	800 251 8066
SPB - SUPERBYTE	2 CHIPLEY RUN		WEST BERLIN	NJ 08091	609 346 3063 617-868-4700
SPB - SUPERBYTE SPI - SPINNAKER SOFTWARE SSM - SOFTSMITH INC.	2935 WHIPPLE RD.		CAMBRIDGE UNION CITY	MA 02142 CA 94587	800 341 4000
SSP - STERLING SWIFT PUBLISHING CO.	2 CHIPLEY RUN 215 FIRST STREET 2935 WHIPPLE RD. 7901 SOUTH IH-35	(100 × (100 × 100 × 0)	AUSTIN	TX 78744	512 282 6840
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STA - STAR SOFTWARE  STC - STARTECH INC.  STE - STEP INDUSTRIES  STF - STARFIRE SAMES  STG - SOFTWARE TO GO  STI - STIMUTECH INC.  STP - STARPINT SOFTWARE  STR - STRATEGIC SIMULATIONS INC.  SUB - SUBLOGIC CORP.  SUD - SUNCOM INC.  SUP - SUPERIOR GRAPHICS EMPORIUM  SVI - SPECTRA VIDEO INC.  SWC - SOFTWARE CONSULTANTS  SWP - SUPERIOR GRAPHICS EMPORIUM  SVI - SPECTRA VIDEO INC.  SWC - SOFTWARE CONSULTANTS  SWP - SOFTWARE PLUS  SYD - SYNAPSE SOFTWARE  SYM - SYNTEC  SYN - SYNAPSE SOFTWARE  TAF - TAF SOFTWARE COMPANY  TAM - TAM PRODUCTS  TAM - TAMARACK SOFTWARE  TON - THE COMPUTER PRODUCTS INC.  TAY - TAYLORMADE SOFTWARE  TON - THE COMPUTER NETWORK  TCP - TELESYS COMPUTER PERIPHERALS  TEA - TEACHING TOOLS  TEC - TECH-SKETCH INC.  TEL - TELEGAMES SOFTWARE  TIS - TOTAL INFORMATION SERVICES INC.  TLS - TELELEARNING SYSTEMS  THW - TIMEWORKS INC.  TOT - TOTL SOFTWARE INC.  TOT - TORONTO PET USERS GROUP  TOL - THE QUANTUM LEAP  TRA - TRANSTERR  TRC - TRACE  TRI - TRIMICRO  TRN - TRANSTERRA TECHNOLOGY  TRO - TRONIX  TSC - THE SOFTWARE CONNECTION  TSC - THE SOFTWARE EXCHANGE  TSI - TRILOBYTE SERVICES INC.  TTX - TELETEX COMMUNICATION CORP.  TWI - THE WIZARDS  UFS - USER FRIENDLY SYSTEMS, INC.  UHL - U.H.L. RESEARCH ASSOCIATES INC  UHL - U.H.L. RESEARCH ASSOCIATES INC  UHT - ULTRABYTE  UMB - UMBRELLA SOFTWARE INC.  UNIT - WINTED MISPOWARE INC.  UNIT - WINTED MISPOWARE INC.  UNIT - WINTED MISPOWARE INC.	PO BOX 493	BIDS 5 195 / SUITE	MERRICK MARINA DEL REV	NY 11566 CA 90291	516-379-0280
STE - STEP INDUSTRIES	PO BOX 52605	DOUG OHENCHOUTH AND	HOUSTON	TX 77052	213 709 4900
STF - STARFIRE SAMES STG - SOFTWARE TO GO	1948 OAK RIDGE TURNPIKE	7760 UWENSHOUTH HVE	OAK RIDGE	TN 37830	615-482-9592
STI - STIMUTECH INC.	PO BOX 2575		EAST LANSING	MI 48823 CA 96034	313 /61 902/ 916 435 2386
STR - STRATEGIC SIMULATIONS INC.	883 STIERLIN ROAD	BLDG. A-200	MOUNTAIN VIEW	CA 94043	800 227 1617
SUB - SUBLOGIC CORP.	713 EDGEBROOK DRIVE		CHAMPAIGN ROCHESTER	NY 14614	716 654 7107
SUN - SUNCOM INC.	605 E. ANTHONY TRAIL		NORTHBROOK	IL 60062	312-291-9780
SUP - SUPERIOR GRAPHICS EMPORIUM	PO BOX 99715 39 W. 37TH ST.		NEW YORK	NY 10018	201 664 8611
SWC - SOFTWARE CONSULTANTS	4455 DRAPER STREET	CDEENBARY LANE	SALT LAKE CITY	UT 84118	801-566-3901
SWP - SUPTWARE PLUS SYD - SYDNEY DEVELOPMENT CORP	6201 SUITE C	DREENDHUK LANE	CIINOS RETORIS	CH 75010	619 231 1775
SYF - SYSTEM VII FURNITURE	PO BOX 427		LAFAYETTE	OR 97127 MI 48235	313 272 2950
SYN - SYNAPSE SOFTWARE	5221 CENTRAL AVE.		RICHMOND	CA 94804	415-527-7751
T&F - T&F SOFTWARE COMPANY	10902 RIVERSIDE DRIVE		DE SOTO	TX 75115	213-301-3643
TAM - TAMARACK SOFTWARE	PO BOX 247	DO DOY 1//7	DARBY	MT 59829	406 821 4596
TAY - TAYLORMADE SOFTWARE	C/U 1.M.S. PO BOX 5574	LO ROY 1992	LINCOLN	NE 68505	402-464-9051
TCN - THE COMPUTER NETWORK	PO BOX 9840		FOUNTAIN VALLEY	CA 92708 CA 94539	415 651-2970
TEA - TEACHING TOOLS	BOX 50065		PALO ALTO	CA 94303	000 524 2514
TEC - TECH-SKETCH INC.	26 JUST ROAD PO BOY 152		HAMPTON	ON LOB 1JO	416 263 8064
TGP - TG/PRODUCTS	1104 SUMMIT AVE.	SUITE 110	PLANO	TX 75074	214 424 8568
THO - THOR SOFTWARE TIS - TOTAL INFORMATION SERVICES INC.	47 CHERNUCHA AVE. BOX 921	DEPT. 6	LOS ALAMOS	NM 87544	
TLS - TELELEARNING SYSTEMS	505 BEACH ST.		SAN FRANCISCO	CA 94133	800 225 3276 800-323-9755
TOT - TOTL SOFTWARE INC.	1555 THIRD AVE.		WALNUT CREEK	CA 94596	415-943-7877
TOU - TOUCH TECHNOLOGIES	609 SOUTH ESCONDIDO BLVD.	SUITE 101	ESCONDIDO S TORONTO	CA 92025 ON M5M 4A1	619 /43 0494
TOL - THE QUANTUM LEAP	4214 ARDEN WAY	TATER RVERGE ROBE	SAN DIEGO	CA 92103	619 297 1078
TRA - TRANSTAR	BOX C-96975		MOUNTAIN VIEW	CA 94043	800-24TRACE
TRI - TRIMICRO	1010 N. BATAVIA	SUITE 6	ORANGE	CA 92667	714 771 4038
TRN - TRANSIERRA TECHNOLOGY TRO - TRONIX	8295 SOUTH LA CIENEGA BLVD.		INGLEWOOD	CA 90301	213 215 0529
TSC - THE SOFTWARE CONNECTION	5133 VISTA DEL ORO		FAIR DAKS	CA 95628 OR 97031	800 828 2838
TSI - TRILOBYTE SERVICES INC.	PO BOX 10043		PORTLAND	OR 97210	A1E 741 1700
TTX - TELETEX COMMUNICATION CORP.	3420 EAST THIRD AVE.		THE WOODLANDS	TX 77380	415 341 1300
UFS - USER FRIENDLY SYSTEMS, INC.	6135 ROSS ROAD		FAIRFIELD	OH 45014	513 874 4550
UHL - U.H.L. RESEARCH ASSOCIATES INC ULT - ULTRABYTE	23400 MICHIGAN	SUITE 502	DEARBORN	MI 48124	313 562 9855
UMB - UMBRELLA SOFTWARE INC.	23400 MICHIGAN 53 JILL CRESCENT 3503-C TEMPLE AVENUE		BRAMALEA PAMONA	ON L6S 3J: CA 91768	714-594-1351
UNC - UNICORN SOFTWARE	1775 EAST TROPICANA AVE.		LAS VEGAS	NV 89109	702 798 2727
UNI - UNITRONICS	2100 LIVINGSTON ST.		OAKLAND SCARSDALE	CA 94606 NY 10583	415 536 6655
VAD - VADEM	3517 RYDER STREET		SANTA CLARA	CA 95051	408 738 0571 800 227 3800
VAI - VAISALA INC.	2 TOWER OFFICE PARK PO BOX 731		WOBURN SPRINGFIELD	MA 01801 MD 65801	A STATE OF THE PARTY OF THE PAR
VCP - VIDEO & COMPUTER PLACE INC.	884 NORTH COURT SQUARE		MEDINA PAOLI	OH 44256 PA 19301	216 722 0770 215-296-3787
VIC - VICTORY SUFTWARE VIC - VIDEOCONCEPTS	7847 N. CALDWELL AVE.		NILES	IL 60648	800 621 4109
VIR - VIRGINIA MICRO SYSTEMS	13646 JEFF DAVIS HIGHWAY		WOODBRIDGE POCHESTER PARK	VA 22191 NY 14623	703 491 6502
VIV - VIDEO VALUE	PO BOX 2900		ROLLING HILLS EST	A CA 90274	800 227 3800
ULT - ULTRABYTE UMB - UMBRELLA SOFTMARE INC. UMI - UNITED MICROWARE INDUSTRIES UNC - UNICORN SOFTWARE UNI - UNITRONICS USE - USEFUL SOFTWARE VAD - VADEM VAI - VALUE PLUS SOFTWARE VCP - VIDEO & COMPUTER PLACE INC. VCT - VICTORY SOFTWARE VIC - VIDEOCONCEPTS VIR - VIRGINIA MICRO SYSTEMS VIS - VISUAL HORIZONS VIV - VIDEO VALUE VOM - VILLAGE OFFICE MACHINES VOT - VOTRAX	4721 EUCLID AVENUE CONSUMER PRODUCTS GROUP	500 STEPHENSON HIGH	ROLLING MEADOWS	IL 60008 MI 48084	312-991-0880 800 521 1350
WAY - WAVEFORM CORPORATION	1912 BONITA WAY		REKKELEY	CA 94704 WA 98003	415 841 9866 206-839-WAVE
WEB - WEBBER SOFTWARE	PO BOX 3883 BOX 9	DEPT. C8	SOUTHEASTERN	PA 19399	215 687 5607
WEP - WEPCO	10 DAVIS DR. 80 PINE ST.		BELMONT PETERBOROUGH	CA 94002 NH 03458	800 831 6996 603 924 9471
WIC - WICO	6400 W. GROSS POINT ROAD		NILES	IL 60648	
VOM - VILLAGE OFFICE MACHINES  VOT - VOTRAX  WAV - WAVEFORM CORPORATION  WCI - WAVE COMPUTERS INC.  WEB - WEBBER SOFTWARE  WEP - MEPCO  WGI - WAYNE GREEN, INC.  WIC - WICO  WIZ - WIZARD WARE  WRI - WRITE ON PROGRAMS	PO BOX 1046 27 BOWDON RD.	DEP1. C8	DUCEUTHMU	IL 60439 NY 11740	516 271 3177
WAG WILLIAM ROBBING	BOX 3745		SAN RAFAEL	CA 94912	213 410 9884
XAN - XANA DATA SYSTEMS ZAX - ZAXIS	PO BOX 666		SAN CARLOS	CA 94070	415-592-4334
ZIR - ZIRCON INTERNATIONAL INC. ZIR - ZIRCON INTERNATIONAL INC.	475 VANDELL WAY 475 VANDELL WAY		CAMBELL CAMBELL	CA 95008 CA 95008	
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ALABAMA		
HYTEK CORP.	HUNTSVILLE	205 534 9835
ARKANSAS		
COMPUTER LEARNING CENTER	CLARKSVILLE	501 754 3093
	FORT SMITH	501 452 2965
ARIZONA		
COPPERSTATE BUSINESS SYSTEMS	PHOENIX	602 244 9391
SOFTWARE SPECTRUM COMPUTER HORIZONS	PHOENIX PHOENIX	602 955 7999
L.L.R. ENTERPRISES	TUCSON	602 744 3432
SOFTWARE CITY	TUCSON	602 721 1008
CALIFORNIA		
DATA EQUIPMENT SUPPLY	DOWNEY	213 923 9361
HYDE COMPUTERS	PALOS VERDES EST	375 8372
KJ COMPUTERS	GRANADA HILLS	213 366 5305
COMSOFT	SUN VALLEY	818 768 2584
R&R SOFTWARE	CHULA VISTA	619 426 7011
SOFTWAIRE CENTRE INTERNATIONAL	LA MESA	619 462 3900
CALCO COMPUTERS	OCEANSIDE	
20/64 SOFTWARE CENTER COMPUTER OUTLET	SAN DIEGO SAN DIEGO	
COMPUTER NOOK INC.	SAN BERNADINO	714 381 3446
SOFTWARE GALLERIA OF RIVERSIDE	RIVERSIDE	714 787-4833
INTEGRATED SYSTEMS	GARDEN GROVE	714 707 4000
ACV DATA SERVICES	ORANGE	714 634 1032
COMPUSOUND	ORANGE	
SHARP-TELE-MART	IRVINE	213 306 4103
P.E.C.	ANAHEIM	714 978 6601
COMSTAR	SANTA BARBARA	805 964 4660
JAY-KERN ELECTRONICS	BAKERSFIELD	
ALPHA COMPUTER EQUIPMENT CO.	LANCASTER	805 942 2626
HT ELECTRONICS	SUNNYVALE	408 737 0900
COMPUTER SPECTRUM	SAN FRANCISCO	415 431 5586
DUWAYNE INDUSTRIES COMPUTER STATION	PLEASANT HILL FREMONT	
LIBERTY BUSINESS SYSTEMS	NAPA	707 257 1098
FANTASYLAND COMPUTERS	VALLEJO	707 557 1375
COMPUTER ABUSERS	SANTA CRUZ	408 425 7779
GOULD ENTERPRISES	SANTA CRUZ	408 476 2086
DATAPHILE	WATSONVILLE	408 724 3322
HARDING WAY NEWS	STOCKTON	209 464 7514
SOFTWARE 1ST	SANTA ROSA	707 576 0972
SAWYER'S NEWS INC.	SANTA ROSA	707 542 1311
COAST BULLETIN BOARD	FORT BRAGG	707 964 7114
THE LEARNING ENVIRONMENT	EUREKA	707 443 5213
CANDY COMPUTER	ELK GROVE	916 685 7247
SOFTWAIRE CENTRE INTERNATIONAL		916 925 3337
MICRO DESIGNS	SACRAMENTO	916 362 9702

CALIFORNIA CONT?				
BARTON SOFTWARE	MARYSVILLE	916	741	2455
RADIO MART	REDDING	916	241	3000
COMPUTER VIDEO DEPOT	MT. SHASTA			6273
COLORADO				
SOFTWARE CITY	WESTMINSTER	303	430	8708
MICRO WORLD COMPUTERS	LAKEWOOD			
SUPER SOFTWARE	PUEBLO			3855
ON SCREEN	GRAND JUNCTION	303	242	0083
CONNECTICUT				
NEW ENGLAND HOBBY SUPPLY	MANCHESTER	203	444	0610
COMPUTERAMA	VERNON			2667
SOFTWARE CITY	ORANGE			2119
MULTI BUSINESS COMPUTER SYSTEMS	PORTLAND			
SOFTOWN INC.	DANBURY	203	797	8080
SOFTWARE SOURCE	STAMFORD	203	323	3300
FLORIDA				
NEW ERA COMPUTERS	ORMOND BEACH			
A A COMPUTER EXCHANGE	0110110011112			6520
GULF COAST COMPUTER EXCHANGE	PANAMA CITY	904	785	6441
RANDOM ACCESS COMPUTERS	FORT WALTON BEAC			
FLORIDA BOOK STORE/ COMPUTER CTR				0000
FAMILY COMPUTER CENTER	OCALA	904	622	9090
MICRO DATA SYSTEMS	ORLANDO	70F	OFF	1010
ORLANDO ELECTRONICS CO.	ORLANDO MELBOURNE		The state of the s	6574
COMPUTER SPECIALTIES INC. SOFTWARE FORUM <1>	CORAL GABLES	303	123	03/4
DISKS N' BYTES	N. MIAMI BEACH	305	948	9819
FOCUS SCIENTIFIC	FORT LAUDERDALE			1010
SOFTWARE FORUM	FT. LAUDERDALE			6111
DATA BASE	DAVIE			3355
SUNSHINE SOFTWARE	FT. LAUDERDALE	305	979	4885
AC&M SERVICE	WEST PALM BEACH	305	582	7327
COMPU-LEASE COMPUTERS	BRADENTON	813	747	5915
ALL AMERICAN ELECTRONICS				2909
MICROCOMPUTER CENTER	CLEARWATER	813	531	2614
SOFTWARE CITY	SARASOTA			
UNICORN COMPUTER SERVICES				7602
COMPUTER CORNER	ST. PETERSBURG			
NEW AGE ELECTRONICS	ST. PETERSBURG	813	323	8389
GEORGIA				
B&J ENTERPRISES	ROSWELL	101	000	8251
SOFTWARE FORUM <2>				9833
THE CURSOR INC.	DORAVILLE			3499
r	DONAVILLE	707	400	3477
IOMA				
SKYWALK SYSTEMS	DES MOINES	515	282	1956
IOWA BOOK & SUPPLY	IOWA CITY	-10		1,00
SOFTWARE CITY	DAVENPORT	319	386	2345
TRAILS				
IDAHO				
FRIENDLY COMPUTERS	COEUR D'ALENE	208	667	4513

ILLINGIS				
SOFTWARE PLUS	WHEELING	312	520	1717
DIGITAL WORLD	ADDISON	312	628	9222
THE SOFTWARE SHOP	ALGONQUIN			
PACE MICRO SOFTWARE CENTER	BENSENVILLE			3860
FAMILY SOFTWARE	GLENDALE HEIGHTS CHICAGO			6013
A BYTE BETTER	ROCKFORD	100	Total or inco	1545
JFE COMPUTERS	GENESEO	The same of the sa	1000	3412
R/D COMPUTER SALES & SERVICE	PERU			
COMPUTER REVOLUTION	NORMAL	309	452	7312
MICRO-PACE	CHAMPAIGN	217	356	1883
INDIANA				
IMPAIR	INDIANAPOLIS	317	353	9947
AVC CORPORATION	INDIANAPOLIS	100000		2209
SOFTWARE CITY	INDIANNAPOLIS	317	253	8586
THE COMPUTER STATEMENT	ELKHART	219	875	6933
RMS VIDEO & COMPUTERS	ROCKVILLE	317	569	1222
RENTUCKY				
SOFTWARE CITY	LOUISVILLE	502	007	3838
THE SOFTWARE SOURCE	LOUISVILLE	302	673	3030
REALITY WORLD COMMUNICATIONS	VERSAILLES	606	873	9193
LUUISIANA				
INSTANT REPLAY VIDEO	GRETNA	504	391	1020
SOFTWARE SOLUTIONS	BATON ROUGE	504	928	2613
[	NAME AND ADDRESS OF THE PARTY O			
MALNE				
SKYLIGHT SOFTWARE	BELFAST	207	338	1410
MARYLAND				
WALDORF COMPUTERS COMPUDEO	WALDORF CAMP SPRINGS			1005 3131
ROCKVILLE SALES	SILVER SPRINGS			1564
COMPUTER EMPORIUM	BALTIMORE			3919
FREDERICK SOFTWARE SUPPLY	FREDERICK			5600
·				
MASSACHUSETTES				
NICHOLS PHARMACY & ELECTRONICS				1564
SOFTWARE PLUS	CONCORD			1980
COMPUTER MARKET PLACE	TEWKSBURY NORWOOD			5317 8444
BIT STOP	SHARON		A CONTRACTOR OF THE PARTY OF TH	7100
SOFTWARE CITY	LEXINGTON			0116
THE TOY DEPOT	NORTH ATTLEBORO		And the second second	
MICHIGAN				
ROSEVILLE COMPUTER	ROSEVILLE	717	770	2410
VIDEOASIS	STERLING HEIGHTS LIVONIA			0102
VILLAGE COMPUTER YE OLDE COMPUTER SHOPPE	YPSILANTI			6382
TE ULDE CUMPUTER SHUFFE	II OILIIII			





# INFO≣64 DEALERS CONT'D

TELEGIZANI ZANEZA		
MICHIGAN (CONT / D		
COMPUTER CORNER EDGE CONNECTOR	OAK PARK	313 968 0050
COMVIDEO	CLIO	313 686 1070 517 424 3520
COMPU-ED	GLADWIN MT PLEASANT	517 426 3520
HOME VIDEO OUTLET (HVO)	LANSING	517 321 8958
THE COMPUTER SOURCE	LANSING	517 887 0920
COMPUTERS TODAY	HOLLAND	616 392 2304
SOFTWARE PLUS * ATTN/ B. PALMER		
HOMEDATA PERSONAL COMPUTER STORE	GRAND RAPIDS	616 241 2099
·		
MINNESOTA		
COMPUTER STUFF	MINNEAPOLIS	612 825 2674
COMPUTER EXERCISE WORLD	ST. LOUIS PARK	612 920 7500
Q-SOFT	MINNEAPOLIS	612 922 5808
Q-SOFT	MINNEAPOLIS	612 922 5808
P.M. SOFTWARE	MINNEAPOLIS	612 780 3651
MISSOURI		
	LINOUESTES	714 704 0700
MICRONOMICS CORP.	WINCHESTER	314 394 0390 314 727 3420
SOFTWARE TO GO	ST. LOUIS ST. LOUIS	314 727 3420 314 361 8825
SYSTEMS PLUS THOSE DAHN THINGS	O'FALLON	314 361 8825
?SYNTAX ERROR	ST. JOSEPH	816 232 4778
ASSOCIATED COMPUTER SERVICES	SPRINGFIELD	417 865 2811
-		
MONTANA		
THE COMPUTER STORE	BILLINGS	
NEBRASKA		
MICRO CONNECTIONS INC.	OMAHA	402 331 7933
<u> </u>		402 001 7700
NEUADA		
IC ELECTRONICS	LAS VEGAS	702 870 7901
(NEW HAMPSHIRE		
	DODTOMOLITI	107 474 0750
RILEY ENTERPRISES	PORTSMOUTH	603 431 0752
NEW JERSEY		
The state of the s		CHECK THE COMME
SOFTWARE LAND	ELMWOOD PARK	201 791 9557
SOFTWARE CITY	MIDLAND PARK	
WAYNE COMPUTER STORE	WAYNE MONTUALE	
SOFTWARE CITY SOFTWARE CITY	MONTVALE RIDGEFIELD	201 943 8951
IGOR RECORDS & SOFTWARE	TEANECK	201 836 5755
SOFTWARE CITY	CHERRY HILL	
SOFTWARE CENTER	EAST BRUNSWICK	
	AL DUOLES COLUM	FOE ODA TOTA
PAGE ONE SOFTWARE ARCHAIC HOBBIES	ALBUQUERQUE LAS CRUCES	505 294 3054
		505 523 2172

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NEW YORK				
LEIGH'S COMPUTERS	NEW YORK	No. of Control Land	Version in the	6257
SOFTWARE CITY	N. WHITE PLAINS			
SOFTWARE LINK, INC. MEIZNER BUSINESS MACHINES	WHITE PLAINS PELHAM			2512 7400
CODEX	GREATNECK			5155
HARDWARE, SOFTWARE, ANYWARE CO.	BROOKLYN			3672
THE G.A.S. STORE	FLUSHING			5522
PASTIMES	FOREST HILLS		007	COLL
SOFTWARE EMPORIUM	ROSLYN HEIGHTS			
PROGRAMS PLUS INC.	WESTBURY	516	876	2600
LJG ASSOCIATES	HUNTINGTON STATI	516	673	8375
INNERLOGIC COMPUTER CENTER	HICKSVILLE	516	931	5055
SOFTWARE CITY	ALBANY	315	445	2577
SOFTWARE CITY	SYRACUSE	315	445	2577
ROSE CITY COMPUTER ASSOC.	NEWARK			
HOME COMPUTER & SOFTWARE CENTER	ROCHESTER	716	647	2328
NORTH CAROLINA	KERESEE			
TRIAD COMPUTERS	WINSTON-SALEM			
TRIANGLE DATA SYSTEMS	CARRBORO	010	020	4593
SOFTWARE CITY	CHARLOTTE			5218
SELECTIVE SOFTWARE	ARDEN			9997
022201172 00:11112		, , ,		
CHIO				
EARTHRISE MICRO SYSTEMS INC.	DELAWARE			
	DELAWARE WESTERVILLE			
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY		614	888	6660
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS	WESTERVILLE			6660 3646
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION	WESTERVILLE COLUMBUS TOLEDO LORAIN	419	536	3646
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE	419 216	536 572	3646 3580
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC.	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS	419 216 216	536 572 929	3646 3580 3227
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC. DAYPROM COMPUTER INC.	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS DAYTON	419 216 216 513	536 572 929 299	3646 3580 3227 8555
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC.	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS	419 216 216 513	536 572 929 299	3646 3580 3227
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC. DAYPROM COMPUTER INC.	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS DAYTON	419 216 216 513	536 572 929 299	3646 3580 3227 8555
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC. DAYPROM COMPUTER INC. SOFTWARE CITY	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS DAYTON	419 216 216 513 513	536 572 929 299 439	3646 3580 3227 8555
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC. DAYPROM COMPUTER INC. SOFTWARE CITY	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS DAYTON DAYTON	419 216 216 513 513	536 572 929 299 439 672	3646 3580 3227 8555 1251
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC. DAYPROM COMPUTER INC. SOFTWARE CITY  JAMWARE	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS DAYTON DAYTON DAYTON DEL CITY	419 216 216 513 513 405 405	536 572 929 299 439 672 946	3646 3580 3227 8555 1251 8444
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC. DAYPROM COMPUTER INC. SOFTWARE CITY  JAMWARE SECOND HAND SOFTWARE	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS DAYTON DAYTON DEL CITY OKLAHOMA CITY	419 216 216 513 513 405 405	536 572 929 299 439 672 946	3646 3580 3227 8555 1251 8444 2888
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC. DAYPROM COMPUTER INC. SOFTWARE CITY  JAMWARE SECOND HAND SOFTWARE	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS DAYTON DAYTON DEL CITY OKLAHOMA CITY	419 216 216 513 513 405 405	536 572 929 299 439 672 946	3646 3580 3227 8555 1251 8444 2888
EARTHRISE MICRO SYSTEMS INC. THE HOME COMPUTER STORE SOFTWARE CITY QUALITY COMPUTER APPLICATIONS COMPUTER CONNECTION COMPUTER SITE FRIEND CHIPS INC. DAYPROM COMPUTER INC. SOFTWARE CITY  DKLAHDMA JAMWARE SECOND HAND SOFTWARE TEACHER'S PET	WESTERVILLE COLUMBUS TOLEDO LORAIN STRONGSVILLE CUYAHOGA FALLS DAYTON DAYTON DEL CITY OKLAHOMA CITY	419 216 216 513 513 405 405 918	536 572 929 299 439 672 946 542	3646 3580 3227 8555 1251 8444 2888
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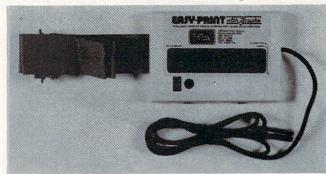


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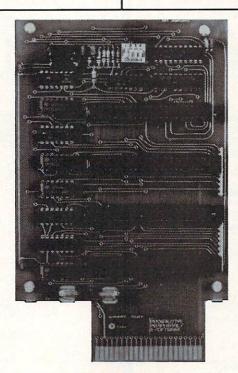
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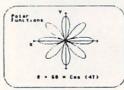
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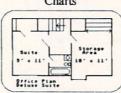
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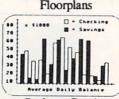


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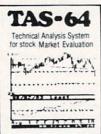


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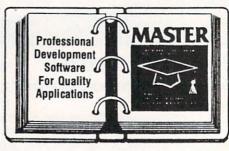












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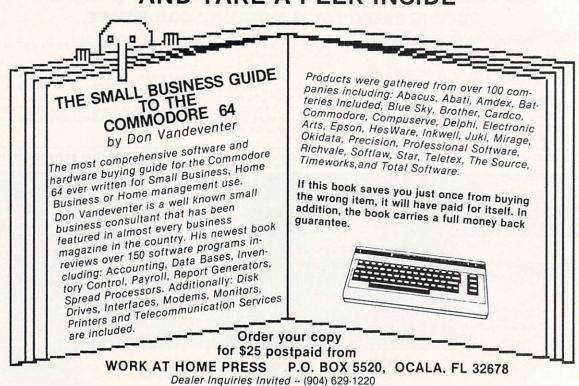
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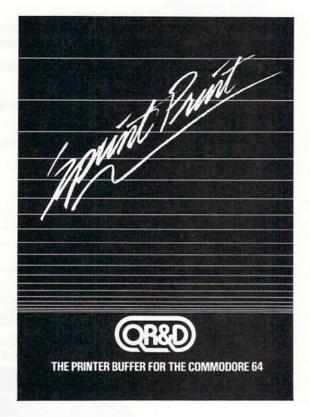
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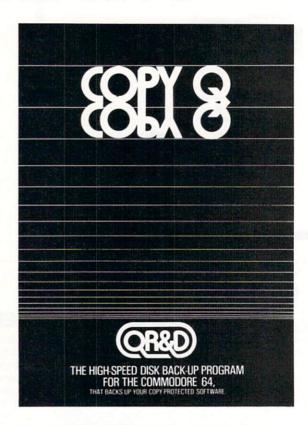


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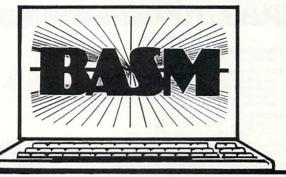
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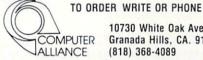
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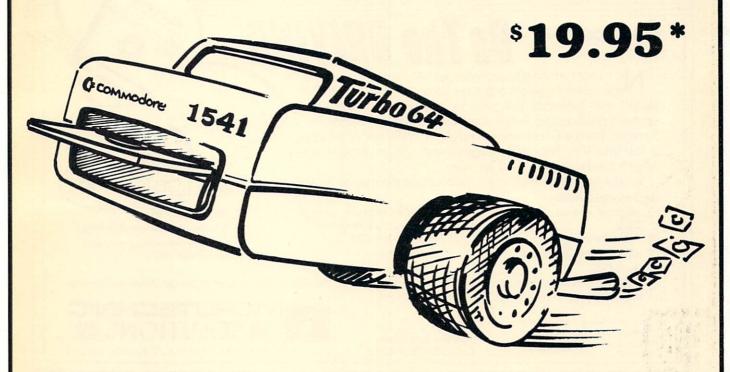
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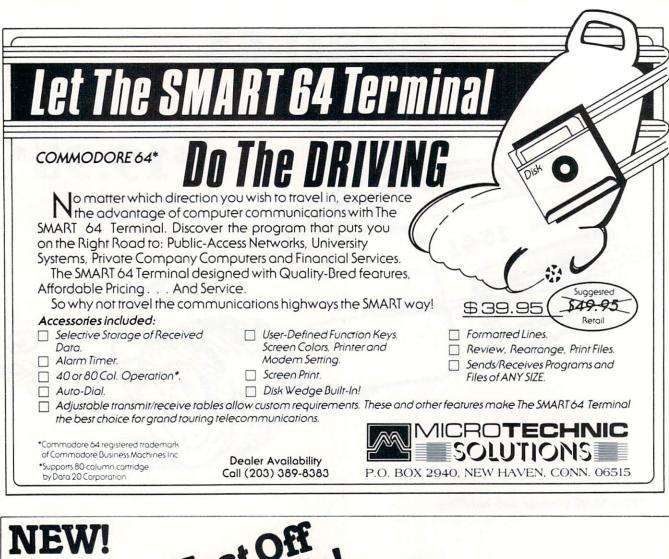
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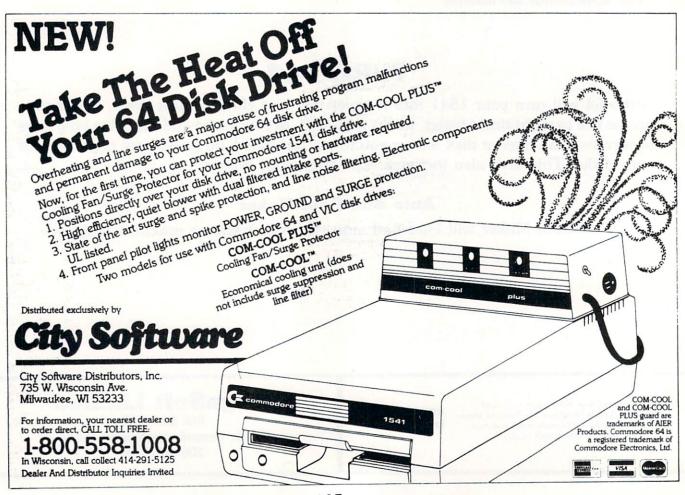
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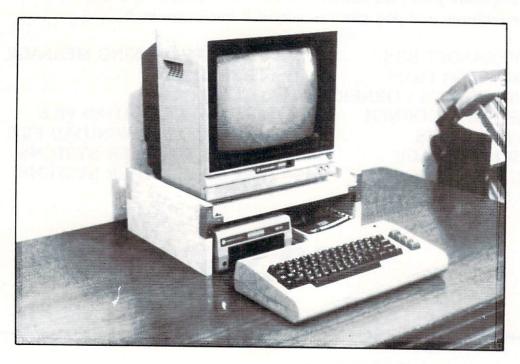


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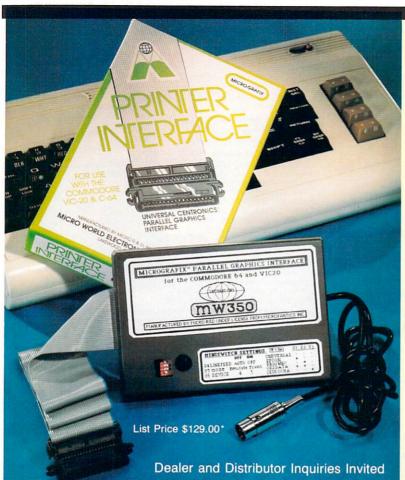
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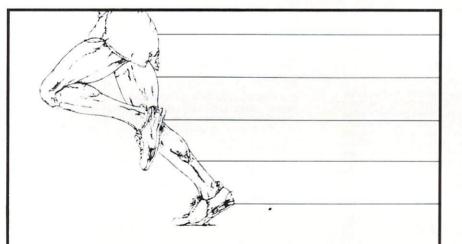
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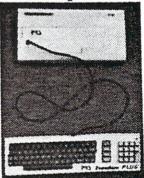
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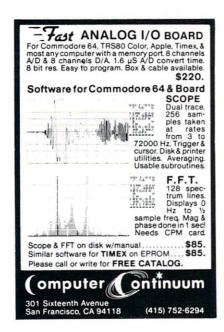
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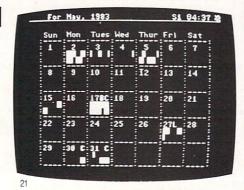
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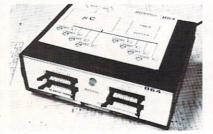


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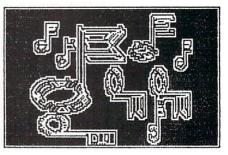
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